Backflow Prevention Products and Parts
For Fire Protection and Municipal Waterworks

AmesFireWater.com

Ames Fire & Waterworks Product Catalog
Excellence Matters – Specify It

Since 1910 Ames Fire & Waterworks has been a leader in the manufacture of valves and fittings for all types of pipeline systems. Ames products serve the fire protection, irrigation and waterworks markets and have a reputation of excellence in the industry. Ames production process promotes consistent quality control and prompt customer service. This catalog features Ames's standard products; Ames also offers a wide variety of custom products upon request. If excellence matters to you, then specify Ames.

Lead Free* Transition

Backflow prevention has critical implications in potable water supply systems. With the changeover to Lead Free in the United States effective January 4, 2014, Lead Free backflow prevention devices are required in many applications and/or settings. The Ames backflow preventer product line includes many Lead Free versions of our trusted and reliable backflow products.

Standard Material Products (not Lead Free) CONTAIN MORE THAN 0.25% LEAD. It is illegal to use this product in any plumbing system providing water for human consumption, such as drinking or dishwashing, in the United States.

Before installing standard material product, consult your local water authority, building and plumbing codes.

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.
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**Note:** Ames product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Ames Technical Service. Ames reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Ames products previously or subsequently sold.
The Maxim Series M200, M200N Double Check Valve Assemblies are used to prevent backflow of pollutants, that are objectionable but not toxic, from entering the potable water supply system. The Maxim M200, M200N may be installed under continuous pressure service and may be subjected to backpressure. The Maxim M200, M200N consists of two independently operating check valves, two shutoff valves, and four test cocks. For use in non-health hazard applications. The Maxim M200, M200N features Lead Free* construction to comply with Lead Free* installation requirements.

**Features**
- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Tri-Link Checks Provides Lowest Pressure Loss
- Unmatched Ease of Serviceability
- Available with Grooved Butterfly Valve Shutoffs
- Available for Horizontal, Vertical or N Pattern Installations
- Replaceable Check Disc Rubber

**Materials**
- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna-N
- Tri-Link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

**Available Models**
Suffix:
- NRS – non-rising stem resilient seated gate valves
- OSY – UL/FM outside stem and yoke resilient seated gate valves
- BFG – UL/FM grooved gear operated butterfly valves w/tamper switch
- **OSY FxG – flanged inlet gate connection and grooved outlet gate connection**
- **OSY GxF – grooved inlet gate connection and flanged outlet gate connection**
- **OSY GxG – grooved inlet gate connection and grooved outlet gate connection**

Available with grooved NRS gate valves - consult factory**
Post indicator plate and operating nut available - consult factory**
**Consult factory for dimensions

**Pressure — Temperature**
Temperature Range: 33°F – 110°F (0.5°C – 43°C)
Maximum Working Pressure: 175psi (12.1 bar)

**Approvals**
For additional approval information please contact the factory or visit our web site at www.amesfirewater.com

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.
### Dimensions — Weights

#### M200, M200N

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#### M200BFG, M200NBFG

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**IMPORTANT:** Inquire with governing authorities for local installation requirements.
Double Check Valve Assemblies
Sizes: 2½” – 10” (65 – 250mm)

**LEAD FREE** The Colt Series C200, C200N Double Check Valve Assemblies are used to prevent backflow of pollutants, that are objectionable but not toxic, from entering the potable water supply system. The Colt C200, C200N may be installed under continuous pressure service and may be subjected to backpressure. The Colt C200, C200N consists of two independently operating check valves, two shutoff valves, and four test cocks. For use in non-health hazard applications. The Colt Series C200, C200N features Lead Free* construction to comply with Lead Free* installation requirements.

**Features**
- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Tri-Link Check Provides Lowest Pressure Loss
- Unmatched Ease of Serviceability
- Available with Grooved Butterfly Valve Shutoffs
- Available for Horizontal, Vertical or N Pattern Installations
- Replaceable Check Disc Rubber

**Materials**
- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna-N
- Tri-Link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Noryl® is a registered trademark of SABIC Innovative Plastics™.

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

**Available Models**
Suffix:
- NRS – non-rising stem resilient seated gate valves
- OSY – UL/FM outside stem and yoke resilient seated gate valves
- BFG – UL/FM grooved gear operated butterfly valves w/tamper switch
- **OSY FxG** – flanged inlet gate connection and grooved outlet gate connection
- **OSY GxF** – grooved inlet gate connection and flanged outlet gate connection
- **OSY GxG** – grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves - consult factory**
Post indicator plate and operating nut available - consult factory**
**Consult factory for dimensions

**Pressure — Temperature**
Temperature Range: 33°F – 140°F (0.5°C – 60°C)
Maximum Working Pressure: 175psi (12.1 bar)

**Approvals**

For additional approval information please contact the factory or visit our web site at www.amesfirewater.com
Dimensions — Weights

### C200, C200N

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Noryl® is a registered trademark of SABIC Innovative Plastics™.

**IMPORTANT:** Inquire with governing authorities for local installation requirements
Double Check Valve Assemblies
2000SS: Sizes: 2½" – 12" (65 – 300mm)

The SilverBullet™ Series 2000SS Double Check Valve Assemblies are designed to prevent the reverse flow of polluted water from entering the potable water supply. These models can be applied, where approved by the local authority having jurisdiction, on non-health hazard installations. Series 2000SS feature short end-to-end dimensions, light weight stainless steel body, and the lowest head loss available. The Series 2000SS features Lead Free* construction to comply with Lead Free* installation requirements.

Features
• Cam-Check Assembly provides low head loss
• Short lay length is ideally suited for retrofit installations
• Stainless steel body is half the weight of competitive designs reducing installation and shipping costs
• Stainless steel construction provides long term corrosion protection and maximum strength
• Single top access cover with two-bolt grooved style coupling for ease of maintenance
• No special tools required for servicing
• Compact construction allows for smaller vaults and enclosures
• May be installed in horizontal or vertical flow up position

Materials
All internal metal parts: 300 Series stainless steel
Main valve body: 300 Series stainless steel
Check assembly: Noryl®

Pressure — Temperature
Temperature Range: 33°F – 110°F (0.5˚C – 43˚C)
Maximum Working Pressure: 175psi (12.1 bar)

Approvals

Available Models
Suffix:
NRS – non-rising stem resilient seated gate valves
OSY – UL/FM outside stem and yoke resilient seated gate valves
LG – without gate valves
**OSY FxG – flanged inlet gate connection and grooved outlet gate connection
**OSY GxF – grooved inlet gate connection and flanged outlet gate connection
**OSY GxG – grooved inlet gate connection and grooved outlet gate connection
Available with grooved NRS gate valves - consult factory**
Post indicator plate and operating nut available - consult factory**
**Consult factory for dimensions

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.
**Dimensions – Weights**

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**2000SS**

**IMPORTANT:** Inquire with governing authorities for local installation requirements.
Series LF2000B, 2000B

Double Check Valve Assemblies
Sizes: ½” – 2” (15 – 50mm)

Features
- Ease of maintenance with only one cover
- Top entry
- Replaceable seats and seat discs
- Modular construction
- Compact design
- ½” – 2” (15 – 50mm) Cast bronze body construction
- Top mounted ball valve test cocks
- Low pressure drop
- No special tools required
- ¾” – 1” (15 – 25mm) have tee handles

Pressure — Temperature
Temperature Range: 33°F – 180°F (0.5°C – 82°C)
Maximum Working Pressure: 175psi (12.1 bar)

LF2000B
Series LF2000B, 2000B Double Check Valve Assemblies shall be installed at referenced cross-connections to prevent the backflow of polluted water into the potable water supply. Only those cross-connections identified by local inspection authorities as non-health hazard shall be allowed the use of an approved double check valve assembly. Check with local authority having jurisdiction regarding vertical orientation, frequency of testing or other installation requirements.

LF2000B features Lead Free* construction to comply with Lead Free installation requirements.

Available Models
B – quarter turn ball valves
LBV – less ball valves

Approvals

For additional approval information please contact the factory or visit our web site at www.amesfirewater.com.

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.
2000B

For Use in Non-Potable Applications

Series 2000B are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing.

Available Models

Prefix:
- U – union connections

Suffix:
- B – quarter turn ball valves
- LBV – less ball valves
- SH – stainless steel ball valve handles
- HC – 2½” inlet/outlet fire hydrant fitting (2” valve)

Approvals

For additional approval information please contact the factory or visit our web site at www.amesfirewater.com

Dimensions – Weights

![Diagram of Double Check Valve Assemblies]

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Standard 2000B-HC fire hydrant fittings dimension “A” = 231/2” (594mm)

Strainer sold separately.

IMPORTANT: Inquire with governing authorities for local installation requirements
Double Check Detector Assemblies
Sizes: 2½" – 10" (65 – 250mm)

Features
- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Tri-Link Check Provides Lowest Pressure Loss
- Unmatched Ease of Serviceability
- Available with Grooved Butterfly Valve Shutoffs
- Available for Horizontal, Vertical or N Pattern Installations
- Replaceable Check Disc Rubber

Pressure — Temperature
Temperature Range: 33°F – 110°F (0.5°C – 43°C)
Maximum Working Pressure: 175psi (12.1 bar)

Materials
- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna-N
- Tri-Link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Available Models
Suffix:
- OSY – UL/FM outside stem and yoke, resilient seated gate valves
- BFG – UL/FM grooved gear operated butterfly valves with tamper switch
- **OSY FxG – flanged inlet gate connection and grooved outlet gate connection
- **OSY GxF – grooved inlet gate connection and flanged outlet gate connection
- **OSY GxG – grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves
- consult factory**

For additional approval information please contact the factory or visit our web site at www.amesfirewater.com

For additional information, request literature ES-A-M300/M300N, ES-A-LFM300/LFM300N. Flow Charts on p. 43
M300, M300N

For Use in Non-Potable Applications

Series M300, M300N are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codea and water authority requirements for non-potable service applications such as irrigation, fire line, or industrial processing.

Dimensions — Weights

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IMPORTANT: Inquire with governing authorities for local installation requirements
Double Check Detector Assemblies
Sizes: 2½" – 10" (65 – 250mm)

**Features**
- Extremely compact design
- 70% lighter than traditional designs
- 304 (Schedule 40) stainless steel housing & sleeve
- Groove fittings allow integral pipeline adjustment
- Patented tri-link check provides lowest pressure loss
- Unmatched ease of serviceability
- Available with grooved butterfly valve shutoffs
- May be used for horizontal, vertical or N pattern installations
- Replaceable check disc rubber

**Pressure-Temperature**
Temperature Range: 33°F – 110°F (5°C – 43°C)
Maximum Working Pressure: 175psi (12.1 bar)

**Models**
Suffix:  
OSY – UL/FM outside stem and yoke resilient seated gate valves
BFG – UL/FM grooved gear operated butterfly valves with tamper switch

**OSY FxF** – Flanged inlet gate connection and grooved outlet gate connection

**OSY GxF** – Grooved inlet gate connection and flanged outlet gate connection

**OSY GxG** – Grooved inlet gate connection and grooved outlet gate connection

**LFC300, LFC300N**
Series LFC300, LFC300N Double Check Detector Assemblies are used to prevent backflow of non-health hazard pollutants that are objectionable but not toxic, from entering the potable water supply system. The LFC300, LFC300N may be installed under continuous pressure service and may be subjected to backpressure and backsiphonage. Series LFC300, LFC300N is used primarily on fire line sprinkler systems when it is necessary to monitor unauthorized use of water. The LFC300 and LFC300N features Lead Free* construction to comply with Lead Free* installation requirements.

**Materials**
- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna-N
- Tri-link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test cocks: Lead Free* Copper Silicone Alloy Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

**Approvals**

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

Noryl® is a registered trademark of SABIC Innovative Plastics™

For additional information, request literature ES-A-C300/C300N, ES-A-LFC300/LFC300N. Flow Charts on p. 44
C300, C300N

For Use in Non-Potable Applications
Series C300, C300N Double Check Detector Assemblies are designed to prevent backflow on non-health hazard pollutants that are objectionable but not toxic to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing.

Materials
- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna-N
- Tri-link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Approvals

Dimensions — Weights

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IMPORTANT: Inquire with governing authorities for local installation requirements
Double Check Detector Assemblies
3000SS: Sizes: 2½" – 12" (65 – 300mm)

The SilverBullet™ Series 3000SS Double Check Detector Assemblies are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fire line, or industrial processing.

Features
- Cam-Check Assembly provides low head loss
- Short lay length is ideally suited for retrofit installations
- Stainless Steel body is half the weight of competitive designs reducing installation and shipping cost
- Stainless steel construction provides long term corrosion protection and maximum strength
- Single top access cover with two-bolt grooved style coupling for ease of maintenance
- No special tools required for servicing
- Compact construction allows for smaller vaults and enclosures
- Furnished with ½" x ¾" bronze meter (gpm or cfm)
- Detects underground leaks and unauthorized water use
- Maybe installed horizontal or vertical “flow up” position

Available Models
Suffix:
- LG – without gate valves
- OSY – UL/FM outside stem and yoke resilient seated gate valves
- CFM – cubic feet per minute
- GPM – gallons per minute meter
- *OSY FxG – flanged inlet gate connection and grooved outlet gate connection
- *OSY GxF – grooved inlet gate connection and flanged outlet gate connection
- *OSY GxG – grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves - consult factory*
Post indicator plate and operating nut available - consult factory*
*Consult factory for dimensions

Materials
All internal metal parts: 300 Series stainless steel
Main valve body: 300 Series stainless steel
Check assembly: Noryl®

Pressure — Temperature
Temperature Range: 33°F – 110°F (0.5°C – 43°C)
Maximum Working Pressure: 175psi (12.1 bar)

Approvals
Flange dimension in accordance with AWWA Class D.
For additional approval information please contact the factory or visit our web site at www.amesfirewater.com
Dimensions – Weights

**3000SS**

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**IMPORTANT:** Inquire with governing authorities for local installation requirements
Double Check Detector Assembly
Sizes: 2" (50mm)

Series 3000B Double Check Detector Assembly are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority regulations for non-potable service applications such as irrigation, fire line, or industrial processing. The Series 3000B is ideal for use on non-health hazard fire protection systems to detect leaks or unauthorized water usage.

Modular check design concept facilitates maintenance and assembly access. All sizes are standardly equipped with resilient seated OSY shut off valves and \( \frac{5}{8}'' \times \frac{3}{4}'' \) (16 x 19mm) meter.

**Features**

**Main Valve:**
- Gear Operated Ball Valve Shutoffs with Pre-Wired Tamper Switches (2)
- Compact Design for Ease of Installation
- Inline Serviceable Assembly
- No Special Tools Required for Servicing
- Captured Modular Spring Loaded Checks
- Field Replaceable Seats & Discs
- Field Replaceable Auxiliary Bypass Line & Components

**Auxiliary Bypass:**
- Compact Bypass Design; Remains within Main Valve Assembly Profile
- Inline Serviceable \( \frac{1}{2}'' \) Backflow Assembly
- No Special Tools Required for Servicing
- Captured Modular Spring Loaded Checks
- Field Replaceable Seats & Discs
- Detect Potential Underground Water Leaks
- Detect Unauthorized Water Usage

**Material Specifications**
- Body: Cast Bronze ASTM B584
- Elastomers: Silicone
- O-Rings: EPDM
- Check Modules: Engineered Plastics

**Pressure — Temperature**

Max. Working Pressure: 175psi
Min. Working Pressure: 10psi
Hydrostatic Test Pressure: 350psi
Hydrostatic Safety Pressure Rating: 700psi
Continuous Operating Range: 33°F-110°F (0.5°C-43°C)
Intermittent Operating Range up to 140°F (60°C) Must not exceed 12 hour duration

**Configurable Options**

**Suffix**
- OSY: UL/FM Approved OS&Y Gate Valves (ANSI/AWWA C515 Compliant)
- FP: UL Approved Gear Operated Ball Valves
- CFM: Cubic Feet per Minute \( \frac{5}{8}'' \times \frac{3}{4}'' \) Water Meter (ANSI/AWWA C700 Compliant)
- GPM: Gallon per Minute \( \frac{5}{8}'' \times \frac{3}{4}'' \) Water Meter (ANSI/AWWA C700 Compliant)
- LF: Less Shut-off valves; This is NOT an APPROVED ASSEMBLY
- LM: No Water Meter Installed in Auxiliary Bypass Line

**Approvals**

For additional approval information please contact the factory or visit our web site at www.amesfirewater.com
Dimensions – Weights

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**IMPORTANT:** Inquire with governing authorities for local installation requirements
Maxim™ Series M400, M400N, M400Z

Reduced Pressure Zone Assemblies
Sizes: 2½" – 10" (65 – 250mm)

Features
- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Link Check Provides Lowest Pressure Loss
- Unmatched Ease of Serviceability
- Available with Grooved Butterfly Valve Shutoffs
- Available for Horizontal, N Pattern or Z Pattern Installations
- Replaceable Check Disc Rubber

Materials
- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna ‘N’
- Link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Available Models
Suffix:
- NRS – non-rising stem resilient seated gate valves
- OSY – UL/FM outside stem and yoke, resilient seated gate valves
- BFG – UL/FM grooved gear operated butterfly valves with tamper switch
- **OSY FxG – flanged inlet gate connection and grooved outlet gate connection
- **OSY GxF – grooved inlet gate connection and flanged outlet gate connection
- **OSY GxG – grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves - consult factory**
Post indicator plate and operating nut available - consult factory**
Consult factory for dimensions

Pressure — Temperature
Temperature Range: 33°F – 110°F (0.5°C – 43°C)
Maximum Working Pressure: 175psi (12.1 bar)

Approvals

For additional approval information please contact the factory or visit our web site at www.amesfirewater.com

The Maxim Series M400, M400N, M400Z Reduced Pressure Zone Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The Maxim M400, M400N, M400Z are normally used in health hazard applications for protection against backsiphonage, back-pressure and the fouling of either check valve. The Series M400, M400U, M400Z features Lead Free* construction to comply with Lead Free* installation requirements.

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.
### Dimensions — Weights

#### M400, M400N, M400Z

<table>
<thead>
<tr>
<th>SIZE (DN)</th>
<th>A (OSY)</th>
<th>C (OSY)</th>
<th>C (NRS)</th>
<th>D</th>
<th>H</th>
<th>I</th>
<th>P</th>
<th>M</th>
<th>G</th>
<th>J</th>
<th>M400OSY</th>
<th>M400NRS</th>
<th>M400OSY</th>
<th>M400NRS</th>
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<tr>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>in.</td>
<td>in.</td>
<td>in.</td>
<td>in.</td>
<td>in.</td>
<td>in.</td>
<td>lbs.</td>
<td>lbs.</td>
<td>lbs.</td>
<td>lbs.</td>
</tr>
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<td>2½</td>
<td>65</td>
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<td>31¼</td>
<td>806</td>
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<td>479</td>
<td>10¼</td>
<td>260</td>
<td>6¼</td>
<td>170</td>
<td>22½</td>
<td>565</td>
<td>16%</td>
<td>413</td>
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<td>4</td>
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<td>40¼</td>
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<td>22¼</td>
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<td>12½</td>
<td>310</td>
<td>8</td>
<td>203</td>
<td>32½</td>
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<td>19%</td>
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<td>37¼</td>
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<td>32%</td>
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<td>26½</td>
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#### M400NBFG, M400ZBF, M

<table>
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<tr>
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<th>I</th>
<th>P</th>
<th>M</th>
<th>G</th>
<th>J</th>
<th>M400OSY</th>
<th>M400NRS</th>
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<tr>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>lbs.</td>
<td>lbs.</td>
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<tr>
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<td>13%</td>
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<td>597</td>
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<td>1003</td>
<td>21¼</td>
<td>553</td>
<td>16½</td>
<td>418</td>
<td>692</td>
</tr>
</tbody>
</table>

**IMPORTANT:** Inquire with governing authorities for local installation requirements.
Reduced Pressure Zone Assemblies
Sizes: 2½" – 10" (65 – 250mm)

The Colt Series C400, C400N, C400Z Reduced Pressure Zone Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The Colt C400, C400N, C400Z are normally used in health hazard applications for protection against backsiphonage, backpressure and the fouling of either check valve. They feature Lead Free* construction to comply with Lead Free* installation requirements.

Features
- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Link Check Provides Lowest Pressure Loss
- Unmatched Ease of Serviceability
- Available with Grooved Butterfly Valve Shutoffs
- May be Used for Horizontal, N Pattern or Z Pattern Installations
- Replaceable Check Disc Rubber

Materials
- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna–N
- Link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Available Models
Suffix:
- NRS – non-rising stem resilient seated gate valves
- OSY – UL/FM outside stem and yoke, resilient seated gate valves
- BFG – UL/FM grooved gear operated butterfly valves with tamper switch
- **OSY FxG – flanged inlet gate connection and grooved outlet gate connection
- **OSY GxF – grooved inlet gate connection and flanged outlet gate connection
- **OSY GxG – grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves - consult factory**
Post indicator plate and operating nut available - consult factory**
**Consult factory for dimensions

Pressure — Temperature
Temperature Range: 33°F – 140°F (0.5°C – 60°C)
Maximum Working Pressure: 175psi (12.1 bar)

Approvals

Noryl® is a registered trademark of SABIC Innovative Plastics™.
*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

For additional approval information please contact the factory or visit our web site at www.amesfirewater.com
**Reduced Pressure Zone Assemblies**

**IMPORTANT:** Inquire with governing authorities for local installation requirements.

### Dimensions — Weights

#### C400, C400N, C400Z

<table>
<thead>
<tr>
<th>SIZE (DN)</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>in. mm</td>
<td>in. mm</td>
<td>in. mm</td>
</tr>
<tr>
<td>A</td>
<td>C (OSY)</td>
<td>C (NRS)</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>2½</td>
<td>65</td>
<td>30¼</td>
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<tr>
<td>3</td>
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<td>31¼</td>
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<td>200</td>
<td>49¼</td>
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<td>250</td>
<td>57¼</td>
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#### C400N BFG/C400Z BFG

<table>
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<th>SIZE (DN)</th>
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<tbody>
<tr>
<td>in. mm</td>
<td>in. mm</td>
<td>in. mm</td>
</tr>
<tr>
<td>G</td>
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<td>24</td>
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<td>25¼</td>
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<tr>
<td>6</td>
<td>150</td>
<td>35¼</td>
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#### C400 BFG

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<tbody>
<tr>
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<td>C</td>
<td>D</td>
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<td>---</td>
<td>---</td>
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</tr>
<tr>
<td>4</td>
<td>100</td>
<td>29</td>
</tr>
<tr>
<td>6</td>
<td>150</td>
<td>36½</td>
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</table>

**IMPORTANT:** Inquire with governing authorities for local installation requirements.
The SilverBullet™ Series 4000SS Reduced Pressure Zone Assemblies are designed to provide protection of the potable water supply in accordance with national codes. This series can be used where approved by the local authority having jurisdiction on health hazard cross-connections. Series 4000SS features short lay length, lightweight stainless steel body, corrosive resistant stainless steel relief valve, and cam-check assembly.

Features
- Stainless steel construction provides long term corrosion resistance and maximum strength
- Stainless steel body is half the weight of competitive designs reducing installation & shipping costs
- Short end-to-end dimensions makes retrofit easy
- Cam-check assembly provides maximum flow at low pressure drop
- No special tools required for servicing
- Compact construction allows for smaller enclosures
- Stainless steel relief valve features a balanced rolling diaphragm to eliminate sliding seals and lower maintenance costs

Materials
All internal metal parts: 300 Series stainless steel
Main valve body: 300 Series stainless steel
Check assembly: Noryl®
Flange dimension in accordance with AWWA Class D

Pressure — Temperature
Temperature Range: 33°F – 110°F (0.5°C – 43°C)
Maximum Working Pressure: 175psi (12.1 bar)

Approvals
For additional approval information please contact the factory or visit our web site at www.amesfirewater.com

Available Models
Suffix:
- NRS – non-rising stem resilient seated gate valves
- OSY – UL/FM outside stem and yoke resilient seated gate valves
- LG – without gate valves
- **OSY FxG – flanged inlet gate connection and grooved outlet gate connection
- **OSY GxF – grooved inlet gate connection and flanged outlet gate connection
- **OSY GxG – grooved inlet gate connection and grooved outlet gate connection
- Available with grooved NRS gate valves - consult factory**
- Post indicator plate and operating nut available - consult factory**
- **Consult factory for dimensions

Dimensions – Weights

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<td>150</td>
<td>48-1/2</td>
</tr>
<tr>
<td>8</td>
<td>200</td>
<td>52-1/2</td>
</tr>
<tr>
<td>10</td>
<td>250</td>
<td>55-1/2</td>
</tr>
</tbody>
</table>

*NOS is a registered trademark of SABIC Innovative Plastics™.

The installation of a drain line is recommended. When installing a drain line, an air gap is necessary. The 4000SS should be installed with a minimum clearance of 12” between lowest point of the assembly and the floor drain or grade.
Features

- Heavy duty relief valve cover prevents vandalism and protects valve from damage when 6000HMB is transported to another fire hydrant location.
- In-line flow restrictor protects the meter measuring element and the backflow preventer components from damage due to excessive flow (6000HMB only).
- Backflow preventer made from 300 Series stainless steel for corrosion resistance.
- Portable lightweight design makes device easily transportable between job sites.
- Accurately measures flow (HMB Series) and protects the water supply from possible contamination.
- Series 4000BLT comes less meter.
- Built-In support leg with surface saddle is adjustable in the field.
- Factory assembled and tested; no field assembly required; eliminates leaks and improper assembly.

Options (BLT Series)

Inlet modules

- 3” female or male hydrant thread
- 2½” female or male hydrant thread
- 2½” male NPT thread
- Customer specified

Outlet modules

- 3” gate w/female or male hose thread
- 2½” gate w/female or male hose thread
- 3” gate valve only, w/3” INPT thread
- 2½” gate valve only, w/2½” FNPT thread
- Customer specified

Dimensions – Weights

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<th>WEIGHT</th>
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<tr>
<td></td>
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<td>4000BLT</td>
<td>62</td>
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<tr>
<td>6000HMB-GPM</td>
<td>66</td>
</tr>
<tr>
<td>6000HMB-CFM</td>
<td>66</td>
</tr>
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</table>
Reduced Pressure Zone Assemblies
Sizes: ½” – 2” (15 – 50mm)

Features

- Single access cover and modular check construction for ease of maintenance
- Top entry - all internals immediately accessible
- Captured springs for safe maintenance
- Internal relief valve for reduced installation clearances
- Replaceable seats for economical repair
- Lead Free* cast copper silicon alloy body construction for durability ½” – 2”
- Ball valve test cocks — screwdriver slotted
- Large body passages provide low pressure drop
- Compact, space saving design
- No special tools required for servicing

LF4000B

Series LF4000B Reduced Pressure Zone Assemblies are designed to protect potable water supplies in accordance with national plumbing codes and water authority requirements. This series can be used in a variety of installations, including the prevention of health hazard cross-connections in piping systems or for containment at the service line entrance. The LF4000B features Lead Free* construction to comply with Lead Free* installation requirements.

This series features two in-line, independent check valves, captured springs and replaceable check seats with an intermediate relief valve. Its compact modular design facilitates easy maintenance and assembly access. Sizes ¼” – 1” shutoffs have tee handles.

Materials

- Furnished with quarter-turn, full port, resilient seated, Lead Free* cast copper silicon alloy body ball valve shutoffs.

Approvals

ASSE, AWWA, CSA, IAPMO
Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

Pressure-Temperature

Series LF4000B, 4000B:

- ¼” - 2” (8 – 50mm)
- Suitable for supply pressure up to 175psi (12.1 bar).
- Water temperature: 33°F – 180°F (0.5° – 75°C).

Models

Suffix:

B - quarter-turn ball valves

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.
4000B

For Use in Non-Potable Applications

Series 4000B Reduced Pressure Zone Assemblies are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing.

This series features two in-line, independent check valves, captured springs and replaceable check seats with an intermediate relief valve. Its compact modular design facilitates easy maintenance and assembly access. Sizes ¼" – 1" shutoffs have tee handles.

Materials

- Bronze body construction, silicone rubber disc material in the first and second check plus the relief valve. Replaceable polymer check seats for first and second checks. Removable stainless steel relief valve seat. Stainless steel cover bolts.
- Standardly furnished with NPT body connections. For optional bronze union inlet and outlet connections, specify prefix U (½" – 2"). Series 4000B furnished with quarter turn, full port, resilient seated, bronze ball valve shutoffs

Models

Size: ¼" – 2" (8 – 50mm)

Suffix:
B – quarter-turn ball valves
LBV – less ball valves
SH – stainless steel ball valve handles
HC – 2½" inlet/outlet fire hydrant fitting
S – bronze strainer

Prefix:
U – union connections

Approvals

ASSE, AWWA, CSA, IAPMO
Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.
UL Classified ¾" – 2"
Approval models QT, U

Dimensions – Weights

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<tbody>
<tr>
<td></td>
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<td>in.</td>
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<tr>
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<tr>
<td>¾</td>
<td>10½</td>
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<td>16½</td>
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<td>17½</td>
<td>454</td>
</tr>
<tr>
<td>2</td>
<td>21½</td>
<td>543</td>
</tr>
</tbody>
</table>

Strainer sold separately

IMPORTANT: Inquire with governing authorities for local installation requirements
The Maxim Series LFM500, LFM500N, LFM500Z Reduced Pressure Detector Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The LFM500, LFM500N, LFM500Z are normally used in health hazard applications to protect against backsiphonage, backpressure and the fouling of either check valve. They are used to monitor unauthorized use of water from the fire protection system. LFM500, LFM500N, LFM500Z feature Lead Free* construction to comply with Lead Free* installation requirements.

**Features**
- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Link Check Provides Lowest Pressure Loss
- Unmatched Ease of Serviceability
  - Available with Grooved Butterfly Valve Shutoffs
  - Available for Horizontal, N Pattern or Z Pattern Installations
  - Replaceable Check Disc Rubber

**Materials**
- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna 'N'
- Link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

**Pressure — Temperature**
Temperature Range: 33°F – 110°F (0.5°C – 43°C)
Maximum Working Pressure: 175psi (12.1 bar)

**Available Models**
Suffix:
- **OSY** – UL/FM outside stem and yoke, resilient seated gate valves
- **BFG** – UL/FM grooved gear operated butterfly valves with tamper switch
- **OSY FxG** – flanged inlet gate connection and grooved outlet gate connection
- **OSY GxF** – grooved inlet gate connection and flanged outlet gate connection
- **OSY GxG** – grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves - consult factory**
Post indicator plate and operating nut available - consult factory**
**Consult factory for dimensions

**Approvals**

For additional approval information please contact the factory or visit our web site at www.amesfirewater.com

Noryl® is a registered trademark of SABIC Innovative Plastics™.

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.
M500, M500N, M500Z

For Use in Non-Potable Applications

M500, M500N, M500Z are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fire line, or industrial processing.

Dimensions — Weights

### LFM500, LFM500N, LFM500Z

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</tr>
<tr>
<td>3</td>
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</tr>
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### LFM500NBFG, LFM500ZBFG

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<td>768</td>
</tr>
<tr>
<td>6</td>
<td>37 ½</td>
<td>953</td>
</tr>
</tbody>
</table>

**IMPORTANT:** Inquire with governing authorities for local installation requirements
**Colt™ Series LFC500, LFC500N, LFC500Z, C500, C500N, C500Z**

**Reduced Pressure Detector Assemblies**
Sizes: 2½” – 10” (65 – 250mm)

**Features**
- Extremely compact design
- 70% lighter than traditional designs
- 304 (Schedule 40) stainless steel housing & sleeve
- Groove fittings allow integral pipeline adjustment
- Patented torsion spring check provides lowest pressure loss
- Unmatched ease of serviceability
- Replaceable check disc rubber
- Available with grooved butterfly valve shutoffs
- Bottom mounted cast stainless steel relief valve
- Metered bypass to detect leakage or theft of water from the fire sprinkler system

**Pressure-Temperature**
Temperature Range: 33°F – 110°F (0.5°C – 43°C)
Maximum Working Pressure: 175psi (12.1 bar)

**Models**
Suffix:
- OSY – UL/FM outside stem and yoke, resilient seated gate valves
- BFG – UL/FM grooved gear operated butterfly valves with tamper switch
- **OSY FxG** – Flanged inlet gate connection and grooved outlet gate connection
- **OSY GxF** – Grooved inlet gate connection and flanged outlet gate connection
- **OSY GxG** – Grooved inlet gate connection and grooved outlet gate connection

**LFC500, LFC500N, LFC500Z**
Series LFC500, LFC500N, LFC500Z Reduced Pressure Detector Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The LFC500, LFC500N, LFC500Z are normally used in health hazard applications to protect against backsiphonage and backpressure. The Series LFC500, LFC500N, LFC500Z are used to monitor unauthorized use of water from the fire protection system. They feature Lead Free* construction to comply with Lead Free* installation requirements.

**Materials**
- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna-N
- Torsion Spring Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Lead Free* Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

**Approvals**
Available with grooved NRS gate valves - consult factory**
Post indicator plate and operating nut available - consult factory**
**Consult factory for dimensions

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

Noryl® is a registered trademark of SABIC Innovative Plastics™.
C500, C500N, C500Z

For Use in Non-Potable Applications

Series C500, C500N, C500Z Reduced Pressure Detector Assemblies are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing. The C500, C500N, C500Z are normally used in health hazard applications to protect against back-siphonation and backpressure. They are used to monitor unauthorized use of water from the fire protection system.

Materials

- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna-N
- Torsion Spring Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Approvals

Dimensions — Weights

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<th>SIZE</th>
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<th>B (OSY)</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>M</th>
<th>P</th>
<th>C500</th>
<th>C500N</th>
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<tr>
<td>in.</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>in.</td>
<td>in.</td>
<td>in.</td>
<td>in.</td>
<td>in.</td>
<td>in.</td>
<td>lbs</td>
<td>kgs</td>
</tr>
<tr>
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<td>30%</td>
<td>781</td>
<td>16%</td>
<td>416</td>
<td>61/2</td>
<td>165</td>
<td>291/2</td>
<td>738</td>
<td>211/2</td>
<td>546</td>
<td>15%</td>
<td>393</td>
<td>81/2</td>
<td>223</td>
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<tr>
<td>3</td>
<td>31%</td>
<td>806</td>
<td>18%</td>
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<td>61/2</td>
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<td>33</td>
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<td>1676</td>
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<td>321/2</td>
<td>826</td>
<td>171/2</td>
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<tr>
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<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>M</th>
<th>P</th>
<th>C500</th>
<th>C500N</th>
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<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>in.</td>
<td>mm</td>
<td>lbs</td>
<td>kgs</td>
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<td>23</td>
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<td>101/4</td>
<td>256</td>
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<td>4</td>
<td>351/4</td>
<td>905</td>
<td>251/2</td>
<td>648</td>
<td>171/2</td>
<td>437</td>
<td>101/4</td>
<td>279</td>
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<td>6</td>
<td>461/2</td>
<td>1181</td>
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<td>895</td>
<td>201/2</td>
<td>521</td>
<td>131/2</td>
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</table>
SilverBullet™ Series 5000SS

Features
- Stainless steel construction provides long term corrosion resistance and maximum strength
- Stainless steel body is light weight reducing installation and shipping costs
- Short end to end dimensions makes retrofit easy
- Bottom mounted relief valve reduces clearance requirements when installed against an outside wall
- Cam-check valves provides maximum flow at low pressure drop
- No special tools required for servicing
- Compact construction allows for smaller enclosures
- Stainless steel relief valve features a balanced rolling diaphragm to eliminate sliding seals and lower maintenance costs
- Detects leaks and unauthorized water use.
- GPM or CFM meter available

Materials
- All Internal Metal Parts: 300 Series stainless steel
- Main Valve Body: 300 Series stainless steel
- Check Assembly: Noryl®

Pressure — Temperature
Temperature Range: 33°F – 110°F (0.5°C – 43°C)
Maximum Working Pressure: 175psi (12.1 bar)

Approvals
For additional approval information please contact the factory or visit our web site at www.amesfirewater.com

Available Models
Suffix:
- LG – without gate valves
- OSY – outside stem and yoke resilient seated gate valves
- CFM – cubic feet per minute meter
- GPM – gallons per minute meter
- LM – less meter
- *OSY FxG – flanged inlet gate connection and grooved outlet gate connection
- *OSY GxF – grooved inlet gate connection and flanged outlet gate connection
- *OSY GxG – grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves - consult factory*
Post indicator plate and operating nut available - consult factory*
*Consult factory for dimensions

NOTICE
The installation of a drain line is recommended. When installing a drain line, an air gap is necessary.

Dimensions — Weights

<table>
<thead>
<tr>
<th>SIZE (DN)</th>
<th>DIMENSIONS (APPROX.)</th>
<th>WEIGHTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>in.</td>
<td>mm</td>
<td>A</td>
</tr>
<tr>
<td>2½</td>
<td>65</td>
<td>37</td>
</tr>
<tr>
<td>3</td>
<td>80</td>
<td>38</td>
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<tr>
<td>4</td>
<td>100</td>
<td>40</td>
</tr>
<tr>
<td>6</td>
<td>150</td>
<td>48½</td>
</tr>
</tbody>
</table>

Noryl® is a registered trademark of SABIC Innovative Plastics™.
Series 1000SS Detector Check Valves
Sizes: 4" – 10" (100 – 250mm)

Features
- 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

Available Models
Standard units come without bypass assembly.
For models with bypass specify Suffix:
CFM - cubic feet per minute meter
GPM - gallons per minute meter
LM - without meter

Materials
Body: 300 Series stainless steel
Knuckle Joint Assembly: Stainless steel linkage
Cam-Check Assembly: Stainless steel linkage

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

Pressure – Temperature
Temperature Range: 33°F – 110°F (0.5°C – 43°C)
Maximum Working Pressure: 175psi (12.1 bar)

Approvals
Flange bolt pattern and hole diameter in accordance with ANSI B16.5 Class 125/AWWA C207 Class D
Body nameplate provides nominal size, direction of flow, PSI rating, year of manufacture and approval marks

Dimensions – Weights

<table>
<thead>
<tr>
<th>SIZE (DN)</th>
<th>DIMENSIONS (APPROX.)</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>in.</td>
</tr>
<tr>
<td>6</td>
<td>150</td>
<td>22½</td>
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<td>8</td>
<td>200</td>
<td>26½</td>
</tr>
<tr>
<td>10</td>
<td>250</td>
<td>36</td>
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</tbody>
</table>

IMPORTANT: Inquire with governing authorities for local installation requirements

For additional information, request literature ES-A-1000SS Flow Charts on p. 52
Series 1000DCV, 1005DCV, 1010DCV

Detector Check Valves
Sizes: 4" – 10" (100 – 250mm)

Series 1000DCV Detector Check Valves detect any leakage or unauthorized use of water from fire or automatic sprinkler systems. Series 1000DCV, 1005DCV, 1010DCV are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing. During times of minimal water flow, the valve clapper remains closed so that the water flows through a bypass meter (optional). When fire flow is required, the water demand will open the clapper to allow full water flow.

Features
- Fabricated steel body provides a much lighter weight unit than cast steel or ductile iron
- Approved for mounting in horizontal or vertical positions
- Prevents backflow from fire prevention systems
- Used to isolate fire systems from public main during pumper boost of fire system
- Ames-Guard™ epoxy coating is rust resistant and impervious to most chemicals

Available Models
Standard units come without bypass
1000DCV – 4"-10" (100-250mm) 125# flanged end connections
1005DCV – 4"-6" (100-150mm) 125# flanged x grooved end connections
1010DCV – 4"-6" (100-150mm) grooved x grooved end connections
For models with bypass specify suffix:
CFM - cubic feet per minute meter
GPM - gallons per minute meter
LM - without meter

Materials
Body: Fabricated steel
Knuckle Joint Assembly: Stainless steel linkage
Seat: Bronze ASTM B63-82

Pressure – Temperature
Temperature Range: 33˚F – 110˚F (0.5˚C – 43°C)
Rated Working Pressure: 175psi (12.1 bar)

Approvals
Flange bolt pattern and hole diameter in accordance with ANSI B16.5 Class 125/AWWA C207 Class D
Body nameplate provides nominal size, direction of flow, PSI rating, year of manufacture and approval marks
For additional approval information please contact the factory or visit our web site at www.amesfirewater.com

Dimensions – Weights

<table>
<thead>
<tr>
<th>SIZE (DN)</th>
<th>DIMENSIONS (APPROX.)</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>in.</td>
<td>mm</td>
<td>in.</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>16½</td>
</tr>
<tr>
<td>6</td>
<td>150</td>
<td>22½</td>
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<tr>
<td>8</td>
<td>200</td>
<td>26½</td>
</tr>
<tr>
<td>10</td>
<td>250</td>
<td>36</td>
</tr>
</tbody>
</table>

Consult factory for 1005DCV and 1010DCV dimensions.
The In-Building Riser is used to connect the main fire supply to the building overhead fire system. The fitting passes under the foundation without joints and extends up through the floor. Provided with installation tabs, the unit has a CIPS (Cast Iron Pipe Size) coupler for easy connection to the underground supply (AWWA C900 PVC) and (Ductile Iron Pipe) an industry standard grooved-end connection (AWWA C606) on the building side for easy connection to the overhead fire sprinkler system.

### Features
- Cost savings
- Corrosion resistant stainless steel construction, type 304
- Ease of installation and lightweight allows one person to position and handle the riser
- Minimal site preparation; joint restraint one-piece-construction reduces time and labor; no missing parts, no leaks; easily identifiable for approvals
- Includes test cap and coupler
- UL/FM approved
- Sizes: available in 4" – 10" with various lengths to meet local requirements
- Designed to meet NFPA 24 Section 8-3.2
- AWWA C900 Inlet\DIP
- AWWA C606 Outlet

### Standards
**NFPA** — Designed to allow the contractor to conform to NFPA 24 Section 8-3.2:
Where a riser is close to building foundations, underground fittings of proper design and type shall be used to avoid pipe joints being located under the foundations.
**NFPA** — 24, 7.1.1,8-3.4

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

### Approvals
**Fittings**
- UL HKQA (4" - 10")
- FM Class 1920

### Dimensions – Weights

<table>
<thead>
<tr>
<th>SIZE</th>
<th>A (OD)</th>
<th>B</th>
<th>C</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>ft. mtr.</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
<td>4½</td>
<td>114</td>
<td>6 1.8</td>
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<tr>
<td>6</td>
<td>150</td>
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<td>168</td>
<td>6 1.8</td>
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<td>8</td>
<td>200</td>
<td>8½</td>
<td>219</td>
<td>6 1.8</td>
</tr>
<tr>
<td>10</td>
<td>250</td>
<td>10½</td>
<td>273</td>
<td>6 1.8</td>
</tr>
</tbody>
</table>

*Consult factory for custom leg dimensions*

**IMPORTANT:** Inquire with governing authorities for local installation requirements

For additional information, request literature S-A-InBuildingRiser.
Series 7001, 7002

UL/FM Fire Service Strainers
Sizes: 3" – 10" (80 – 250mm)

Series 7001, 7002 UL/FM Fire Service Strainers are used in non-potable applications in conjunction with a water spray system to protect the system against clogging that can be caused by particles fouling the small discharge opening of the sprinkler heads. Strainers for fire systems are designed to trap foreign material 1/8" diameter or larger. This type of strainer is usually installed upstream of most of the devices in the system including the meters, backflow preventers (or detector check valves) and flow alarms, in order to protect these devices from damage caused by large particles.

Features
- Epoxy coated fabricated steel strainer, flange x flange, groove x groove or groove x flange with multiple cleanouts
- Large solids trap to minimize screen blockage
- 304 stainless steel strainer element

For additional information, request literature ES-A-7001/7002

Series 8000F, 8000G

Stainless Steel Flanged and Grooved Strainers
Sizes: 2½" – 12" (65 – 300mm)

LEAD FREE* Series 8000F, 8000G Stainless Steel Strainers are lightweight, fabricated wye-pattern strainers designed to remove dirt and other debris from fluid systems. A simple cover and coupling permits easy removal of dirt from the strainer’s stainless steel screen, or replacement of the screen. The 8000F and 8000G feature Lead Free* construction to comply with Lead Free* installation requirements.

Features
- 304 stainless steel body exhibits superior corrosion resistance compared to cast iron; eliminates casting porosity problems, complies with NSF 61 and FDA requirements.
- 50% lighter than cast iron valves, reducing handling and installation equipment costs.
- Lead Free* construction
- Single, two-bolt, grooved style cover provides quick and easy access, saving disassembly/assembly time.
- Screen retainer cover is tapped for strainer clean out by opening a blow-off valve, or the standardly furnished closure plug.

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

For additional information, request literature ES-A-8000F/8000G.
Air Gaps

The Ames Air Gap Drain is designed to collect water that is being discharged by the relief valve, due to minor check valve fouling and/or to line pressure fluctuations.

**NOTICE**

The Air Gap Drain is not designed to collect the full discharge capacity of the relief valve.

Vent Elbows

Used with Ames air gaps for vertical installation of reduced pressure zone assemblies.

### Air Gaps & Vent Elbows

#### Ordering Code

<table>
<thead>
<tr>
<th>CODE</th>
<th>SIZES/SERIES</th>
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<th>B</th>
<th>C</th>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
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<td>216</td>
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**Elbow Kits for 4000B/LF4000B**

Available for sizes 1/2" – 2"

**Stainless Steel Elbow Kits** for N and Z pattern valves

Available for sizes 3", 4", 6", 8"

Kits consist of: (2) Elbows, Nut, Bolts, Gaskets and Ring gaskets.

**Cast Iron Elbow Kits** for N pattern Colt & Maxim Series 200 & 300

Available for sizes 2 1/2", 3", 4", 6", 8", 10" **

"Kits not available for Butterfly Valve units

Kits consist of: (2) grv x grv elbows and (2) Groove Couplers.

**Cast Iron Elbow Kits** for N and Z pattern Colt & Maxim Series 400 & 500

Available for sizes 2 1/2", 3", 4", 6", 8", 10" **

"Kits not available for Butterfly Valve units

Kits consist of: (2) grv x grv elbows and (2) Groove Couplers

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**IMPORTANT**: Inquire with governing authorities for local installation requirements

For additional information, request literature ES-A-AG/EL/TC.
Test Cocks, Caps & Tethers

**Cap & Tethers**

**Plastic cap and tether**
(four required per backflow preventer)
- Fits ¼” female test cocks
- Plastic dust cap and rubber tether
- ARK-TC/Ames - ¼” - ¼” (7017626)

**SAE Brass Cap, O-ring and tether**
(four required per backflow preventer)
- Fits ¼” male x SAE test cocks
- Brass dust cap with O-ring seal and rubber tether
- ARK-SAE-TC/Ames (7017249)

**Test Kit Model ATG-1**

**Backflow Preventer Test Kit**
The Ames ATG-1 Backflow Preventer Test Kit is a compact portable testing device made for testing all Reduced Pressure Zone Backflow Prevention Assemblies and Double Check Valve Assemblies. The ATG-1 is easily connected to any RPZ device enabling accurate testing of ‘zone’ differential pressure, relief valve opening differential, fouled check valves or similar problems that visual inspections cannot locate. The unit is supplied with a rugged carrying case for easy handling and accessibility.

**Specifications**
- Maximum Working Pressure – 175psi (12.1 bar)
- Maximum Working Temperature – 210°F (99°C)
- Gauge – 4½” diameter face dual scale
  0 – 15psid and 0 – 1kg/cm², ±2% accuracy full scale
- Test Valves – (2) ball valves and (1) needle valve
- Hoses – (3) 3’ with female threaded swivel couplings
- Adaptors – (3) ¼” threaded coupling adaptors
  (3) ½” x ¼” bushings
  (3) ¾” x ¼” bushings
- 1 – 16” securing strap
- 1 – Moisture resistant instruction guide
- Case – lightweight, shock resistant molded plastic with foam inserts

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

**Test Cocks**
For use with backflow preventers, isolation valve for gauges, isolation valves for small equipment lines. Lead Free* models available.

**TC/Ames**
- Full port ball valve design
- Screwdriver slot to open and close
- Available ¼” male x ¼” female - ¼” TC/Ames (7017250) or ¼” male x ¼” female - ¼” LFTC/TC/Ames (0425363)

**SAE-TC/Ames**
- Full port ball valve design
- Screwdriver slot operation
- Available ¼” male x SAE - LFSAE TC/Ames (0425362)

**SAE-TC Adapter/Ames**
- ¼” female SAE x ¾” FPT
- Adapts to SAE-TC for use with pressure gauges or site tube
- SAE-TC Adapter/Ames (7017627)

**1/2” TC Kit for Ames Colt/Maxim Series**
- Fits 2½”-4” Colt/Maxim Series
- Ordering Code: (7018394)-not shown

**3/4” TC Kit for Ames Colt/Maxim Series**
- Fits 6”-10” Colt/Maxim Series
- Ordering Code: (7018395)-not shown

For additional information, request literature IS-A-ATG-1.
For Retrofitting Backflow Preventers

Spools

Ames has created “Make up” Spools for use when retrofitting a backflow preventer into the longer lay length of an existing assembly. Ames spools are available in lightweight 300 series stainless steel or epoxy coated carbon steel and come standard with AWWA 150# class “D” carbon steel flanges. 150# class “D” stainless steel flanges available upon special request. The Ames spools feature Lead Free* construction to comply with Lead Free installation requirements.

Ames “Make Up” Flanges are used in piping applications where there is a need for additional fitting lay length. Ames flanges are available in AWWA 150# modified class “D” Zinc plated Carbon Steel Flanges with standard bolt pattern. 150# modified class “D” Zinc Plated Carbon Steel Flanges with standard pattern slotted. 150# modified class “D” Stainless Steel Flanges with standard bolt pattern.

Contact factory for specific applications.

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.
The Ames Series AVS valve setters are designed to augment the installation of the "N" series backflow prevention valves.

The Series AVS are available in three connection options, Flange by Flange, Mechanical Joint by Flange, and Mechanical Joint by Mechanical Joint. They are constructed of fusion epoxy coated ductile iron. Integral ductile iron support between elbows transfers thrust downstream, thus eliminating thrust block requirements between elbows. Mechanical joint restraint devices may be used at the pipe connections, depending on local conditions.

**Features**

- Corrosion resistant fusion epoxy coated
- Eliminates the need for thrust blocks or other restraints at the point of installation
- Flanges: ANSI B16.1 Class 125 (Standard) ANSI AWWA C153 A21.53-88

**Materials**

Body: Ductile iron A536 GR 65-45-12
Coating: Fusion epoxy coated internal and external AWWA C550
Bolts & Nuts: Stainless steel

Note: Mechanical joint accessories, flange bolts and gaskets are not included (except for center joints).

**Pressure – Temperature**

Maximum Working Pressure: 175psi (12.1 bar)
Temperature Range: 32°F to 140°F (0°C to 60°C)

**Models**

FLxFL  Flange by Flange  
MJxFL  Mechanical Joint by Flange  
MJxMJ  Mechanical Joint by Mechanical Joint

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

**IMPORTANT:** Inquire with governing authorities for local installation requirements

For dimensions please request literature ES-A-AVS.
Series ASCV Anti-Siphon/Chemigation Check Valve
Sizes: 3" – 12" (80 – 300mm)

Series ASCV Anti-Siphon/Chemigation Check Valve is designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fireline, or industrial processing. The spring swing silent check valve is extremely efficient in the prevention of backflow to the water supply. Spring pressure is applied to the clapper causing it to close an instant before reverse flow starts. This instantaneous closure prevents water hammer and backflow into the water supply.

Series ASCV vacuum breaker is installed on the top of the device on inlet side of check valve to provide air release and vacuum relief when flow discontinues. The vacuum breaker features a contoured machined seat for positive closure and large exhaust port and orifice for maximum air release.

Series ASCV automatic low pressure drain is installed on bottom of device on inlet side of the check to provide drainage of any water on the inlet side of check valve. Drain closes at 2.5psi (17.2 kPa).

Features
- Heavy duty galvanized steel body construction
- Prevents water hammer and backflow into the potable water supply (non-potable applications)
- Vacuum breaker provides maximum air release
- Heavy duty cast aluminum vacuum breaker body
- Durable plastic low pressure drain body with positive O-ring seal, impervious to most chemicals

Materials
Valve Body: Galvanized steel
Vacuum Breaker Body: Cast aluminum
Low Pressure Drain: Plastic

Pressure
Maximum Working Pressure: 150psi (10.3 bar)

Dimensions – Weights

<table>
<thead>
<tr>
<th>SIZE (DN)</th>
<th>DIMENSIONS (APPROX.)</th>
<th>WEIGHT</th>
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<tbody>
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<td>E in. mm</td>
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Maxim™ Series M200, M200N

**2½” (65mm)**

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<tr>
<th>Service Flow</th>
<th>Rated Flow</th>
<th>*UL Rated Flow</th>
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<tbody>
<tr>
<td>7.5 gpm</td>
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<td>7.5 fps</td>
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**3” (80mm)**

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<th>*UL Rated Flow</th>
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<tbody>
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**4” (100mm)**

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**6” (150mm)**

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<th>*UL Rated Flow</th>
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<tbody>
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**8” (200mm)**

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**10” (250mm)**

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<tbody>
<tr>
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<td>7.5 fps</td>
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**Horizontal** — **Vertical** — **N-Pattern**
Maxim™ Series LFM300, LF300N, M300, M300N
Series 3000BMI

Maxim™ Series M400, M400N, M400Z

Flow Charts

![Flow Chart Diagram]
Colt™ Series C400, C400N, C400Z

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**Horizontal** — **N - Pattern** — **Z - Pattern**

### 2½" (65mm)

<table>
<thead>
<tr>
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<th>Rated Flow</th>
<th>*UL Rated Flow</th>
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### 6" (150mm)

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### 3" (80mm)

<table>
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<th>*UL Rated Flow</th>
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### 8" (200mm)

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### 4" (100mm)

<table>
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### 10" (250mm)

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Colt™ Series C400 BFG - Straight

### 4" (100mm)

<table>
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<th>*UL Rated Flow</th>
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<td></td>
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<tr>
<td>5</td>
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</tbody>
</table>

### 6" (150mm)

<table>
<thead>
<tr>
<th>psi</th>
<th>Service Flow</th>
<th>Rated Flow</th>
<th>*UL Rated Flow</th>
</tr>
</thead>
<tbody>
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<tr>
<td>4</td>
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</tbody>
</table>
**Series 4000SS**

- **2½" (65mm)**
  - Flow Rate: 0, 100, 200, 300, 400, 500, 600 gpm
  - Pressure Loss: 0, 145, 124, 103, 83, 62, 41, 21 kPa

- **3" (80mm)**
  - Flow Rate: 0, 100, 200, 300, 400, 500, 600 gpm
  - Pressure Loss: 0, 145, 124, 103, 83, 62, 41, 21 kPa

- **4" (100mm)**
  - Flow Rate: 0, 100, 200, 300, 400, 500, 600 gpm
  - Pressure Loss: 0, 145, 124, 103, 83, 62, 41, 21 kPa

- **6" (150mm)**
  - Flow Rate: 0, 125, 250, 500, 750, 1000, 1250, 1500 gpm
  - Pressure Loss: 0, 138, 124, 110, 96, 83, 69, 55 kPa

- **8" (200mm)**
  - Flow Rate: 0, 150, 300, 450, 600, 750, 900, 1050 gpm
  - Pressure Loss: 0, 138, 124, 110, 96, 83, 69, 55 kPa

**Series 4000BLT, 6000HMB**

- **Series 4000BLT Flow Characteristics**
  - Flow Rate: 0, 100, 200, 300, 400, 500, 600 gpm
  - Pressure Loss: 0, 150, 134, 118, 102, 86, 70 kPa

- **6000HMB Accuracy Chart**
  - Rate of Flow in Gallons per Minute
  - Accuracy: 
    - 0%: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100%
    - 100%: 100, 110, 120, 130, 140, 150, 160, 170, 180, 190%

- **6000HMB Pressure Loss Chart**
  - Flow Rate: 0, 100, 200, 300, 400, 500 gpm
  - Pressure Loss: 0, 138, 124, 110, 96, 83, 69, 55 kPa
### Flow Rate vs. Pressure Loss

#### 1/4" (8mm)

<table>
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<th>Pressure Loss (kPa)</th>
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<td>0.75</td>
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<tr>
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<table>
<thead>
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<tbody>
<tr>
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<tr>
<td>4.8</td>
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#### 3/8" (10mm)

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<th>Pressure Loss (kPa)</th>
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</thead>
<tbody>
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<table>
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<th>Pressure Loss (psi)</th>
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<tr>
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#### 1/2" (15mm)

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<tr>
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<td>2.3</td>
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<th>Pressure Loss (psi)</th>
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<tr>
<td>7.5</td>
<td>15</td>
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#### 5/8" (19mm)

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<table>
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<th>Pressure Loss (psi)</th>
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#### 1" (25mm)

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<table>
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<th>Pressure Loss (psi)</th>
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<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>19</td>
<td>15</td>
</tr>
<tr>
<td>38</td>
<td>20</td>
</tr>
</tbody>
</table>

#### 1 1/2" (40mm)

<table>
<thead>
<tr>
<th>Flow Rate (gpm)</th>
<th>Pressure Loss (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td>2.3</td>
<td>20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flow Rate (lpm)</th>
<th>Pressure Loss (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>34</td>
<td>15</td>
</tr>
<tr>
<td>46</td>
<td>20</td>
</tr>
</tbody>
</table>

#### 2" (50mm)

<table>
<thead>
<tr>
<th>Flow Rate (gpm)</th>
<th>Pressure Loss (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
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<tr>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>7.5</td>
<td>20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flow Rate (lpm)</th>
<th>Pressure Loss (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>76</td>
<td>15</td>
</tr>
<tr>
<td>152</td>
<td>20</td>
</tr>
</tbody>
</table>
Series 1000SS

Flow Charts

Series 1000DCV

Flow Charts

*Approximate head loss at the UL rated flow.
Flow Charts

Series ASCV

Footnotes:
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