

# Cash Acme™

Product Catalog

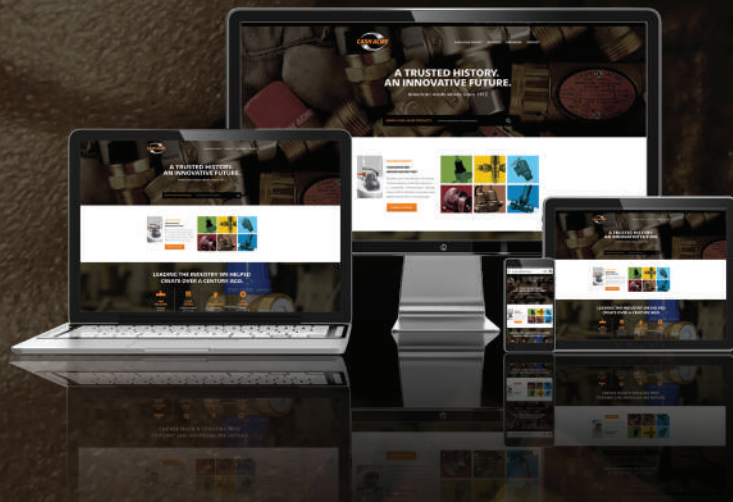


# **WATER CONTROL VALVES THAT STAND THE TEST OF TIME**

In 1893, A.W. Cash designed a valve for U.S. Navy submarines. With the bottom of the sea as his testing ground, the valve became celebrated for its performance, reliability and dependability. Today, every water control valve we make is developed to these same standards.

With more than 100 million valves produced and counting, Cash Acme is the world's largest volume T&P valve producer—and is a trusted manufacturer of water control valves to safeguard water delivery in residential, commercial and industrial settings.

It's our commitment to quality that has driven a century of success with water control valves that stand the test of time. Proudly built in America for more than 100 years, Cash Acme's ISO 9001–certified quality assurance processes ensure that every valve that leaves our facility is 100% tested and meets all standards.



USA: [www.cashacme.com](http://www.cashacme.com) | Canada: [www.cashacme.ca](http://www.cashacme.ca)

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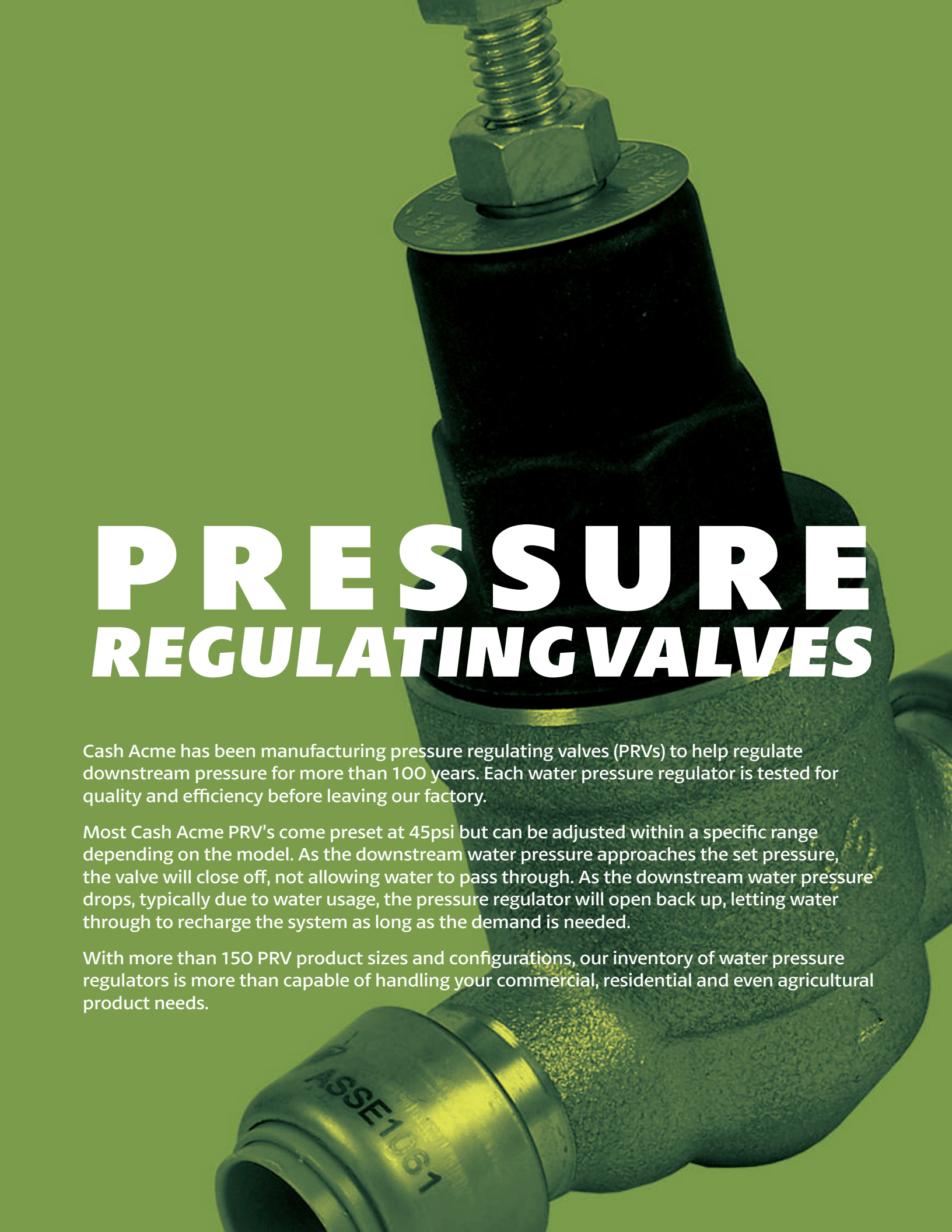
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# **PRESSURE REGULATING VALVES**

Cash Acme has been manufacturing pressure regulating valves (PRVs) to help regulate downstream pressure for more than 100 years. Each water pressure regulator is tested for quality and efficiency before leaving our factory.

Most Cash Acme PRV's come preset at 45psi but can be adjusted within a specific range depending on the model. As the downstream water pressure approaches the set pressure, the valve will close off, not allowing water to pass through. As the downstream water pressure drops, typically due to water usage, the pressure regulator will open back up, letting water through to recharge the system as long as the demand is needed.

With more than 150 PRV product sizes and configurations, our inventory of water pressure regulators is more than capable of handling your commercial, residential and even agricultural product needs.



# PRESSURE REGULATING VALVES



## EB45

### COMMERCIAL, RESIDENTIAL

The EB45 Pressure Regulator features a half cartridge design that offers the performance of a high end, cartridge based valve and the price of a traditional regulator. The valve construction is similar to a traditional regulator in that it retains a separate spring chamber and adjusting screw, but offers the simplicity and maintenance benefits of a cartridge based valve. The EB45 comes factory set at 45 psi but may be adjusted between 10-70 psi.

#### FEATURES AND BENEFITS:

- Rugged bronze body
- Compact pressure reducing mechanism
- Back-pass check mechanism integral with the cartridge\*
- Modular Cartridge Design reduces the number of parts requiring service
- Serviceable in line
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

Maximum pressure: 400 psi (1/2", 3/4" and 1")  
 300 psi (1-1/4", 1-1/2" and 2")  
 Maximum temperature: 180°F (82.2°C)  
 Service: Water  
 Outlet pressure range: 10-70 psi

#### APPLICATIONS:

Commercial and domestic water applications.

#### AVAILABLE CONNECTIONS:

All EB45 models<sup>1</sup> include both FIP and union connection threading on both ends.

|                             |                                       |
|-----------------------------|---------------------------------------|
| Threaded (NPT)              | 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2" |
| Threaded (NPT) Single Union | 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2" |
| Sweat Copper Single Union   | 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2" |
| Threaded (NPT) Double Union | 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2" |
| Sweat Copper Double Union   | 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2" |
| CPVC Double Union           | 3/4" and 1"                           |
| PEX Barb Double Union       | 3/4" and 1"                           |
| Expansion Double Union      | 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2" |

3/4" and 1" models are also available with a pressure gauge

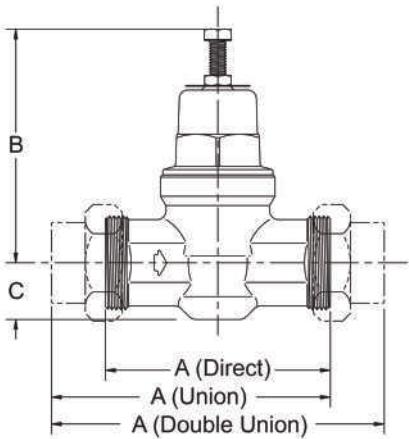
<sup>1</sup>Except for Direct SharkBite models.

#### APPROVALS AND LISTINGS:

ASSE 1003, CSA B356, NSF/ANSI 372 (Lead Free), NSF/ANSI 61. Listed by IAPMO, CSA and ASSE.



| DIMENSIONS (inches) |                  |         |              |              |         |
|---------------------|------------------|---------|--------------|--------------|---------|
| Size                | Connection Style | A       |              |              | C       |
|                     |                  | Direct  | Single Union | Double Union |         |
| 1/2                 | NPT              | 3-1/4   | 4            | 4-3/4        | 4-3/8   |
|                     | Sweat            | -       | 4            | 4-3/4        |         |
| 3/4                 | NPT              | 3-7/16  | 4-3/16       | 4-15/16      |         |
|                     | Sweat            | -       | 4-5/16       | 5-1/4        |         |
|                     | CPVC             | -       | -            | 5-3/8        |         |
|                     | Barb             | -       | -            | 5-11/16      |         |
| 1                   | NPT              | 4-3/16  | 5-3/16       | 6-3/16       | 4-3/8   |
|                     | Sweat            | -       | 5-5/16       | 6-7/16       |         |
|                     | CPVC             | -       | -            | 6-1/2        |         |
|                     | Barb             | -       | -            | 7            |         |
| 1-1/4               | NPT              | 4-13/16 | 5-11/16      | 6-9/16       | 7-11/16 |
|                     | Sweat            | -       | 5-7/8        | 6-15/16      |         |
| 1-1/2               | NPT              | 4-13/16 | 5-15/16      | 7            |         |
|                     | Sweat            | -       | 6            | 7-3/16       |         |
| 2                   | NPT              | 4-13/16 | 6            | 7-3/16       |         |
|                     | Sweat            | -       | 6-1/4        | 7-11/16      |         |



\*The back-pass check feature allows for a reverse flow of water through the regulator in the event that outlet pressure increases to exceed supply pressure. Thermal expansion, created by a water heater for instance, can cause water pressure to increase. Without the back-pass check, water cannot flow in reverse.

## PRESSURE REGULATING VALVES



### EB45 SHARKBITE

#### COMMERCIAL, RESIDENTIAL

The EB45 Pressure Regulator with SharkBite push-fit connections features a half cartridge design that offers the performance of a high end, cartridge based valve and the price of a traditional regulator. The valve construction is similar to a traditional regulator in that it retains a separate spring chamber and adjusting screw, but offers the simplicity and maintenance benefits of a cartridge based valve. The EB45 comes factory set at 45 psi but may be adjusted between 10-70 psi. The EB45 is available with several different SharkBite connections for ease of installation, and a trustworthy watertight seal. EB45 SharkBite options include Double Union SharkBite, Direct SharkBite, or Direct SharkBite with Slip Feature.

#### FEATURES AND BENEFITS:

- Instant push-fit connections. No soldering, glue or tools required to make connection.
- Rugged bronze body
- Compact pressure reducing mechanism
- Back-pass check mechanism integral with the cartridge\*
- Modular Cartridge Design reduces the number of parts requiring service
- Serviceable in line
- Every valve is tested for performance prior to shipping

The EB45 Direct SharkBite with slip feature allows for a quick and easy installation on existing copper and CTS CPVC pipe.

#### PERFORMANCE:

Maximum pressure: 200 psi  
Maximum temperature: 180°F (82.2°C)  
Service: Potable Water  
Outlet pressure range: 10-70 psi

#### APPLICATIONS:

Commercial and domestic water applications.

#### AVAILABLE CONNECTIONS:

Union SharkBite Inlet and Outlet 1/2", 3/4" and 1"  
Direct SharkBite Inlet and Outlet 1/2", 3/4", and 1"  
Direct SharkBite Inlet and Outlet with Slip Feature 1/2" and 3/4"

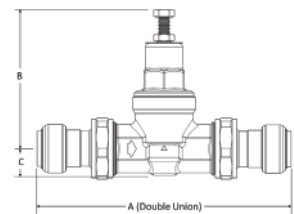
#### APPROVALS AND LISTINGS:

ASSE 1003, CSA B356, NSF/ANSI 372 (Lead Free), NSF/ANSI 61. Listed by IAPMO, CSA and ASSE.



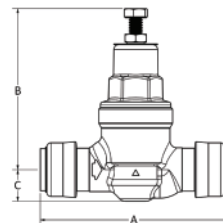
#### EB45 DOUBLE UNION SHARKBITE

| DIMENSIONS (inches) |                        |                     |       |       |
|---------------------|------------------------|---------------------|-------|-------|
| Size                | Connection Style       | A<br>(Double Union) | B     | C     |
| 1/2                 | Double Union SharkBite | 5-7/8               | 4-3/8 | 3/4   |
| 3/4                 |                        | 7                   |       |       |
| 1                   |                        | 8-3/4               |       | 15/16 |



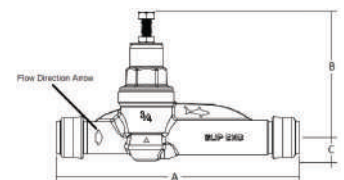
#### EB45 DIRECT SHARKBITE

| DIMENSIONS (inches) |       |       |       |
|---------------------|-------|-------|-------|
| Size                | A     | B     | C     |
| 1/2                 | 4-7/8 | 4-3/8 | 3/4   |
| 3/4                 | 5-1/8 |       |       |
| 1                   | 8-3/4 | 4-3/8 | 15/16 |



#### EB45 DIRECT SHARKBITE WITH SLIP FEATURE

| DIMENSIONS (inches) |         |       |     |
|---------------------|---------|-------|-----|
| Valve Size          | A       | B     | C   |
| 1/2                 | 6-13/16 | 4-3/8 | 3/4 |
| 3/4                 | 7-5/8   | 4-3/8 | 3/4 |



\*The back-pass check feature allows for a reverse flow of water through the regulator in the event that outlet pressure increases to exceed supply pressure. Thermal expansion, created by a water heater for instance, can cause water pressure to increase. Without the back-pass check, water cannot flow in reverse.



## PRESSURE REGULATING VALVES



| PRODUCT DESCRIPTION                                    | PART NUMBER |
|--------------------------------------------------------|-------------|
| <b>EB45 LEAD FREE SHARKBITE CONNECTIONS</b>            |             |
| 1/2" EB45-DSB Direct SharkBite                         | 23807-0045* |
| 1/2" EB45-DSB Direct SharkBite Metal Top               | 24472-0045* |
| 1/2" EB45-SDSB Slip Feature Direct SharkBite           | 24383-0045* |
| 1/2" EB45-SDSB Slip Feature Direct SharkBite Metal Top | 24474-0045* |
| 1/2" EB45-DUSB Double Union SharkBite                  | 23893-0045* |
| 1/2" EB45-DUSB Double Union SharkBite Metal Top        | 24476-0045* |
| 3/4" EB45-DSB Direct SharkBite                         | 23808-0045* |
| 3/4" EB45-DSB Direct SharkBite Metal Top               | 24473-0045* |
| 3/4" EB45-SDSB Slip Feature Direct SharkBite           | 24384-0045* |
| 3/4" EB45-SDSB Slip Feature Direct SharkBite Metal Top | 24475-0045* |
| 3/4" EB45-DUSB Double Union SharkBite                  | 23894-0045* |
| 3/4" EB45-DUSB Double Union SharkBite Metal Top        | 24477-0045* |
| 3/4" EB-45 Double Union SharkBite (60 psi Setting)     | 23896-0060  |
| 3/4" EB45-DUSB Double Union SharkBite with gauge       | 24449-0045  |
| 1" EB45-DSB Direct SharkBite                           | 22675-0045  |
| 1" EB45-DUSB Double Union SharkBite                    | 23358-0045  |
| 1" EB45-DUSB Double Union SharkBite (60 psi Setting)   | 23945-0060  |
| <b>EB45 LEAD FREE THREADED NPT</b>                     |             |
| 1/2" EB45 Threaded NPT                                 | 23880-0045  |
| 1/2" EB45 Threaded NPT Metal Top                       | 24460-0045  |
| 3/4" EB45 Threaded NPT                                 | 23881-0045  |
| 3/4" EB45 Threaded NPT Metal Top                       | 24461-0045  |
| 1" EB45 Threaded NPT                                   | 23164-0045  |
| 1-1/4" EB45 Threaded NPT                               | 23166-0045  |
| 1-1/2" EB45 Threaded NPT                               | 23167-0045  |
| 2" EB45 Threaded NPT                                   | 23160-0045  |
| <b>EB45-U LEAD FREE SINGLE UNION THREADED</b>          |             |
| 1/2" EB45-U Single Union Threaded                      | 23882-0045  |
| 1/2" EB45-U Single Union Threaded Metal Top            | 24462-0045  |
| 3/4" EB45-U Single Union Threaded                      | 23883-0045  |
| 3/4" EB45-U Single Union Threaded Metal Top            | 24463-0045  |
| 3/4" EB45-U Union Inlet with gauge                     | 24446-0045  |
| 1" EB45-U Single Union Threaded                        | 23155-0045  |
| 1" EB45-U Union Inlet with gauge                       | 24450-0045  |
| 1-1/4" EB45-U Single Union Threaded                    | 23158-0045  |
| 1-1/2" EB45-U Single Union Threaded                    | 23168-0045  |
| 2" EB45-U Single Union Threaded                        | 23161-0045  |
| <b>EB45-C LEAD FREE SINGLE UNION SWEAT</b>             |             |
| 1/2" EB45-C Single Union Sweat                         | 23886-0045  |
| 1/2" EB45-C Single Union Sweat Metal Top               | 24466-0045  |
| 3/4" EB45-C Single Union Sweat                         | 23887-0045  |
| 3/4" EB45-C Single Union Sweat Metal Top               | 24467-0045  |
| 3/4" EB45-C Valve Assy with gauge                      | 24447-0045  |

## PRESSURE REGULATING VALVES



| PRODUCT DESCRIPTION                                                       | PART NUMBER |
|---------------------------------------------------------------------------|-------------|
| 1" EB45-C Single Union Sweat                                              | 23165-0045  |
| 1" EB45-C Valve Assy with gauge                                           | 24451-0045  |
| 1-1/4" EB45-C Single Union Sweat                                          | 23908-0045  |
| 1-1/2" EB45-C Single Union Sweat                                          | 23909-0045  |
| 2" EB45-C Single Union Sweat                                              | 23910-0045  |
| <b>EB45-DU LEAD FREE DOUBLE UNION THREADED</b>                            |             |
| 1/2" EB45-DU Double Union Threaded                                        | 23884-0045  |
| 1/2" EB45-DU Double Union Threaded Metal Top                              | 24464-0045  |
| 3/4" EB45-DU Double Union Threaded                                        | 23885-0045  |
| 3/4" EB45-DU Double Union Threaded Metal Top                              | 24465-0045  |
| 1" EB45-DU Double Union Threaded                                          | 23156-0045  |
| 1-1/4" EB45-DU Double Union Threaded                                      | 23905-0045  |
| 1-1/2" EB45-DU Double Union Threaded                                      | 23906-0045  |
| 2" EB45-DU Double Union Threaded                                          | 23907-0045  |
| <b>EB45-CC LEAD FREE DOUBLE UNION SWEAT</b>                               |             |
| 1/2" EB45-CC Double Union Sweat                                           | 23888-0045  |
| 1/2" EB45-CC Double Union Sweat Metal Top                                 | 24468-0045  |
| 3/4" EB45-CC Double Union Sweat                                           | 23889-0045  |
| 3/4" EB45-CC Double Union Sweat Metal Top                                 | 24469-0045  |
| 1" EB45-CC Double Union Sweat                                             | 23157-0045  |
| 1-1/4" EB45-CC Double Union Sweat                                         | 23159-0045  |
| 1-1/2" EB45-CC Double Union Sweat                                         | 23898-0045  |
| 2" EB45-CC Double Union Sweat                                             | 23899-0045  |
| <b>EB45-DUPE LEAD FREE DOUBLE UNION PEX ENDS</b>                          |             |
| 3/4" EB45-DUPE Double Union PEX Ends                                      | 23891-0045  |
| 3/4" EB45-DUPE Double Union PEX Ends Metal Top                            | 24471-0045  |
| 1" EB45-DUPE Double Union PEX Ends                                        | 23942-0045  |
| <b>EB45-DUCPVC LEAD FREE DOUBLE UNION CPVC ENDS</b>                       |             |
| 3/4" EB45-DUCPVC Double Union CPVC Ends                                   | 23890-0045  |
| 3/4" EB45-DUCPVC Double Union CPVC Ends Metal Top                         | 24470-0045  |
| 1" EB45-DUCPVC Double Union CPVC Ends                                     | 23941-0045  |
| <b>EB45-DEX LEAD FREE DOUBLE UNION EXPANSION CONNECTIONS</b>              |             |
| 1/2" EB45-DEX Double Union Expansion Connections, Bronze Body/Polymer Top | 25870-0045  |
| 3/4" EB45-DEX Double Union Expansion Connections, Bronze Body/Polymer Top | 25871-0045  |
| 1" EB45-DEX Double Union Expansion Connections, Bronze Body/Iron Top      | 25782-0045  |
| 1-1/4" EB45-DEX Double Union Expansion Connections, Bronze Body/Iron Top  | 25873-0045  |
| 1-1/2" EB45-DEX Double Union Expansion Connections, Bronze Body/Iron Top  | 25874-0045  |
| 2" EB45-DEX Double Union Expansion Connections, Bronze Body/Iron Top      | 25875-0045  |
| <b>EB45 DOUBLE UNION TEMPORARY BYPASS KITS</b>                            |             |
| 1" EB45 Double Union Threaded NPT Temporary Bypass Kit                    | 22937       |
| 1" EB45 Double Union SWT Temporary Bypass Kit                             | 22938       |
| 1-1/4" EB45 Double Union Threaded NPT Temporary Bypass Kit                | 22942       |
| 1-1/4" EB45 Double Union SWT Temporary Bypass Kit                         | 22943       |





# **PRESSURE REGULATING VALVES**



## **EB25**

**COMMERCIAL, RESIDENTIAL** The EB25 brings state-of-the-art water control technology to pressure regulators. The biggest breakthrough is the simple numerical indicator that allows the exact desired pressure to be set even before the valve is installed, making pressure adjustment a quick, one-man job. The EB25 Stainless Steel also features a stainless steel, 100% lead free body.

With the most advanced design in the industry, the EB25 delivers rock steady flow even with extreme variations in supply pressure. Thanks to a patented single-cartridge design, the EB25 has fewer parts for increased reliability, and it can be serviced without having to remove the valve body. The innovative design also eliminates the water whistle or harmonic hum associated with most pressure regulating valves, thanks to innovative "micro-fingers" that dissipate noise as water flows across the seat.

The EB25 comes factory set at 45 psi but can be manually adjusted between 20-90 psi.

### **FEATURES AND BENEFITS:**

- Convenient orange twist-cap eliminates need for wrench adjustment, numerical indicator shows the pressure without the need for a gauge
- Single piece cartridges can be removed with valve body remaining in place
- Integral back-pass check with the cartridge\*
- Cutting edge design and production incorporates "micro-fingers" that dissipate noise due to water flow across the seat
- Available with a blanking cap for "rough-in" installations
- Optional closing cap for direct burial applications
- Serviceable in line
- Every valve is tested for performance prior to shipping

### **PERFORMANCE:**

Maximum pressure: 300 psi  
 Maximum temperature: 180°F (82.2°C)  
 Service: Water  
 Outlet pressure range: 20-90 psi

### **APPLICATIONS:**

Commercial and domestic water applications.

### **AVAILABLE CONNECTIONS:**

|                                                    |                                       |
|----------------------------------------------------|---------------------------------------|
| Threaded (NPT) Inlet and Outlet <sup>1</sup>       | 3/4" and 1"                           |
| Threaded (NPT) Union, Threaded (NPT)               | 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2" |
| Sweat Copper Union, Threaded (NPT)                 | 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2" |
| Threaded (NPT) Union Inlet and Outlet <sup>1</sup> | 3/4", 1", 1-1/4", 1-1/2" and 2"       |
| Sweat Copper Union Inlet and Outlet <sup>2</sup>   | 3/4", 1", 1-1/4", 1-1/2" and 2"       |
| PEX Barb Union Inlet and Outlet <sup>2</sup>       | 3/4" and 1"                           |
| Expansion                                          | 3/4", 1", 1-1/4", 1-1/2" and 2"       |

<sup>1</sup>The 3/4" and 1" models are stainless steel.

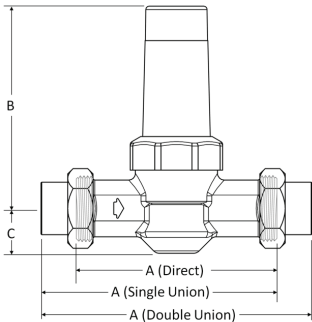
<sup>2</sup>The 3/4" and 1" models use a stainless steel body and lead free brass tailpieces.

### **APPROVALS AND LISTINGS:**

ASSE 1003, CSA B356, NSF/ANSI 372 (Lead Free), NSF/ANSI 61. Listed by IAPMO, CSA and ASSE.



| DIMENSIONS (inches) |                  |        |              |              |         |        |
|---------------------|------------------|--------|--------------|--------------|---------|--------|
| Size                | Connection Style | A      |              |              | B       | C      |
|                     |                  | Direct | Single Union | Double Union |         |        |
| 1/2                 | NPT              | -      | 5-3/4        | -            | 4-15/16 | 1-1/16 |
|                     | Sweat            | -      | 5-5/8        | -            |         |        |
| 3/4                 | NPT              | -      | 5-1/2        | 6-11/16      |         |        |
|                     | Sweat            | -      | 5-11/16      | 6-11/16      |         |        |
|                     | Barb             | -      | -            | 7-1/16       |         |        |
| 1                   | NPT              | -      | 5-3/4        | 7-1/16       |         |        |
|                     | Sweat            | -      | 5-7/8        | 7-1/16       |         |        |
|                     | Barb             | -      | -            | 7-5/8        |         |        |
| 1-1/4               | NPT              | -      | 5-11/16      | 6-9/16       |         |        |
|                     | Sweat            | -      | 5-7/8        | 6-15/16      |         |        |
| 1-1/2               | NPT              | -      | 5-15/16      | 7            | 1-5/8   |        |
|                     | Sweat            | -      | 6            | 7-3/16       |         |        |
| 2                   | NPT              | -      | 6            | 7-3/16       | 1-7/8   |        |
|                     | Sweat            | -      | 6-1/4        | 7-11/16      |         |        |



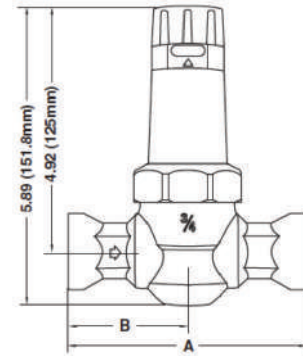
\*The back-pass check feature allows for a reverse flow of water through the regulator in the event that outlet pressure increases to exceed supply pressure. Thermal expansion, created by a water heater for instance, can cause water pressure to increase. Without the back-pass check, water cannot flow in reverse.

## PRESSURE REGULATING VALVES



### EB25 STAINLESS STEEL

| DIMENSIONS (inches) |                  |         |        |
|---------------------|------------------|---------|--------|
| Size                | Connection Style | A       | B      |
| 3/4                 | NPT (Both ends)  | 4-7/8   | 2-7/16 |
| 3/4                 | Double Union NPT | 6-11/16 | 3-3/8  |
| 1                   | NPT (Both ends)  | 4-7/8   | 2-7/16 |
| 1                   | Double Union NPT | 6-13/16 | 3-7/16 |



| PRODUCT DESCRIPTION                                      | PART NUMBER |
|----------------------------------------------------------|-------------|
| <b>EB25 LEAD FREE THREADED NPT</b>                       |             |
| 3/4" EB25 Threaded NPT Stainless Steel Valve             | 22263-0045  |
| 1" EB25 Threaded NPT Stainless Steel Valve               | 22266-0045  |
| <b>EB25-U LEAD FREE SINGLE UNION THREADED</b>            |             |
| 1/2" EB25-U Single Union Threaded                        | 23135-0045  |
| 3/4" EB25-U Single Union Threaded                        | 23136-0045  |
| 1" EB25-U Single Union Threaded                          | 23138-0045  |
| 1-1/4" EB25-U Single Union Threaded                      | 23141-0045  |
| 1-1/2" EB25-U Single Union Threaded                      | 23144-0045  |
| 2" EB25-U Single Union Threaded                          | 23145-0045  |
| <b>EB25-C LEAD FREE SINGLE UNION SWEAT</b>               |             |
| 1/2" EB25-C Single Union Sweat                           | 23952-0045  |
| 3/4" EB25-C Single Union Sweat                           | 23953-0045  |
| 1" EB25-C Single Union Sweat                             | 23954-0045  |
| 1-1/4" EB25-C Single Union Sweat                         | 23964-0045  |
| 1-1/2" EB25-C Single Union Sweat                         | 23965-0045  |
| 2" EB25-C Single Union Sweat                             | 23966-0045  |
| <b>EB25-DU LEAD FREE DOUBLE UNION THREADED</b>           |             |
| 3/4" EB25-DU Double Union Threaded Stainless Steel Valve | 22264-0045  |
| 1" EB25-DU Double Union Threaded Stainless Steel Valve   | 22267-0045  |
| 1-1/4" EB25-DU Double Union Threaded                     | 23142-0045  |
| 1-1/2" EB25-DU Double Union Threaded                     | 23967-0045  |
| 2" EB25-DU Double Union Threaded                         | 23968-0045  |
| <b>EB25-CC LEAD FREE DOUBLE UNION SWEAT</b>              |             |
| 3/4" EB25-CC Double Union Sweat                          | 23137-0045  |
| 1" EB25-CC Double Union Sweat                            | 23139-0045  |
| 1-1/4" EB25-CC Double Union Sweat                        | 23143-0045  |
| 1-1/2" EB25-CC Double Union Sweat                        | 23969-0045  |





# **PRESSURE REGULATING VALVES**

## **EB25 CONT.**



| PRODUCT DESCRIPTION                                                    | PART NUMBER |
|------------------------------------------------------------------------|-------------|
| 2" EB25-CC Double Union Sweat                                          | 23970-0045  |
| <b>EB25- DUPE LEAD FREE DOUBLE UNION PEX ENDS</b>                      |             |
| 3/4" EB25-DUPE Double Union PEX Ends                                   | 23957-0045  |
| 1" EB25-DUPE Double Union PEX Ends                                     | 23140-0045  |
| <b>EB25 LEAD FREE STAINLESS STEEL THREADED NPT</b>                     |             |
| 3/4" EB25 Threaded NPT                                                 | 22263-0045  |
| 1" EB25 Threaded NPT                                                   | 22266-0045  |
| <b>EB25-DU LEAD FREE STAINLESS STEEL DOUBLE UNION THREADED</b>         |             |
| 3/4" EB25-DU Double Union Threaded                                     | 22264-0045  |
| 1" EB25-DU Double Union Threaded                                       | 22267-0045  |
| <b>EB25-DEX LEAD FREE DOUBLE UNION EXPANSION</b>                       |             |
| 3/4" EB25-DEX Double Union Expansion Connections, Stainless Steel Body | 25929-0045  |
| 1" EB25-DEX Double Union Expansion Connections, Stainless Steel Body   | 25930-0045  |
| 1-1/4" EB25-DEX Double Union Expansion Connections, Bronze Body        | 25931-0045  |
| 1-1/2" EB25-DEX Double Union Expansion Connections, Bronze Body        | 25932-0045  |
| 2" EB25-DEX Double Union Expansion Connections, Bronze Body            | 25933-0045  |
| <b>EB25 LEAD FREE CARTRIDGE KIT</b>                                    |             |
| 1/2"-1" EB25 Cartridge Kit                                             | 23148       |
| 1-1/4"-2" EB25 Cartridge Kit                                           | 23149       |
| <b>EB25 LEAD FREE INLET BLANKING CAP KIT</b>                           |             |
| 1/2"-1" EB25 Inlet Blanking Cap Kit                                    | 22219       |
| 1-1/4"-2" EB25 Inlet Blanking Cap Kit                                  | 22248       |
| <b>EB25 LEAD FREE DIRECT BURIAL COVER KIT</b>                          |             |
| 1/2"-1" EB25 Direct Burial Cover Kit                                   | 22224       |

☐ BIM component on website



## PRESSURE REGULATING VALVES



### EB25 SHARKBITE

#### COMMERCIAL, RESIDENTIAL

The EB25 Pressure Regulator with SharkBite push-fit connections brings state-of-the-art water control technology to pressure regulators. The biggest breakthrough is the simple numerical indicator that allows the exact desired pressure to be set even before the valve is installed, making pressure adjustment a quick, one-man job.

With the most advanced design in the industry, the EB25 delivers rock steady outflow even with extreme variations in supply pressure. Thanks to a patented single-cartridge design, the EB25 has fewer parts for increased reliability, and it can be serviced without having to remove the valve body. The innovative design also eliminates the water whistle or harmonic hum associated with most pressure regulating valves, thanks to innovative "micro-fingers" that dissipate noise as water flows across the seat.

The EB25 comes factory set at 45 psi but can be manually adjusted between 20-90 psi. Installed with Double Union SharkBite push-fit connections for quick, easy and watertight fit.

#### FEATURES AND BENEFITS:

- Instant push-fit connection for increased ease of use
- Convenient orange twist-cap eliminates need for wrench adjustment, numerical indicator shows the pressure without the need for a gauge
- Single piece cartridges can be removed with valve body remaining in place
- Integral back-pass check with the cartridge\*
- Cutting edge design and production incorporates "micro-fingers" that dissipate noise due to water flow across the seat
- Available with a blanking cap for "rough-in" installations
- Optional closing cap for direct burial applications
- Serviceable in line
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

Maximum inlet pressure: 200 psi  
Maximum temperature: 180°F (82.2°C)  
Service: Water  
Outlet pressure range: 20-90 psi

#### APPLICATIONS:

Domestic water supply service.

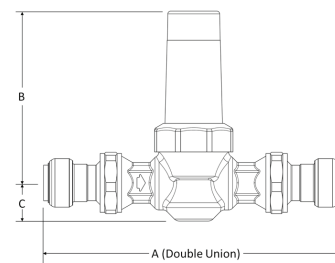
#### AVAILABLE CONNECTIONS:

Union SharkBite Connection Inlet and Outlet<sup>1</sup> 3/4" and 1"

<sup>1</sup>The 3/4" and 1" models use a stainless steel body and lead free brass tailpieces.

#### APPROVALS AND LISTINGS:

ASSE 1003, CSA B356, NSF/ANSI 372 (Lead Free), NSF/ANSI 61.  
Listed by IAPMO, CSA and ASSE.



| DIMENSIONS (inches) |                  |                   |         |        |
|---------------------|------------------|-------------------|---------|--------|
| Size                | Connection Style | A<br>Double Union | B       | C      |
| 3/4                 | SharkBite        | 8-3/8             | 4-15/16 | 1-1/16 |
| 1                   | SharkBite        | 9-1/4             |         |        |

| PRODUCT DESCRIPTION                         | PART NUMBER |
|---------------------------------------------|-------------|
| <b>EB25 LEAD FREE SHARKBITE CONNECTIONS</b> |             |
| 3/4" EB25-DUSB Double Union SharkBite       | 23955-0045  |
| 1" EB25-DUSB Double Union SharkBite         | 23956-0045  |

\*The back-pass check feature allows for a reverse flow of water though the regulator in the event that outlet pressure increases to exceed supply pressure. Thermal expansion, created by a water heater for instance, can cause water pressure to increase. Without the back-pass check, water cannot flow in reverse.

 BIM component on website



# PRESSURE REGULATING VALVES



## EB25 MULTICARTRIDGE

### COMMERCIAL, INDUSTRIAL

The EB25 Multi-Cartridge pressure reducing valve eliminates the need for costly two-valve installation in applications subject to wide variation in water demand. Benefits include accurate flow control and pressure regulation, plus simple cartridge change-out for servicing. The Multi-Cartridge design has a convenient orange pressure adjustment twist-cap and numerical indicator that allows for quick adjustment of water pressure. The state-of-the-art single piece cartridge design makes servicing the valve fast and easy. The valve is designed to service commercial and institutional water installations that experience wide variation in water demand.

Each cartridge has an adjustable range of 20–90 psi but come factory set at 55 psi, 50 psi, and 45 psi respectively.

#### FEATURES AND BENEFITS:

- US Patent 8,327,871
- Multi-Cartridge Design eliminates the need to install multiple PRVs in parallel
- Convenient orange twist-cap eliminates need for wrench adjustment, numerical indicator shows the pressure without the need for a gauge
- Single piece cartridges can be removed with valve body remaining in place
- Back-pass check feature integral with the cartridge\*
- Cutting-edge design and production incorporates "micro-fingers" that dissipate noise due to water flow across the seat
- Regulates pressure at various levels of water demand for accurate flow control
- Serviceable in line
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

Maximum working pressure: 250 psi  
 Maximum temperature: 180°F (82.2°C)  
 Service: Water  
 Outlet pressure range: 20–90 psi

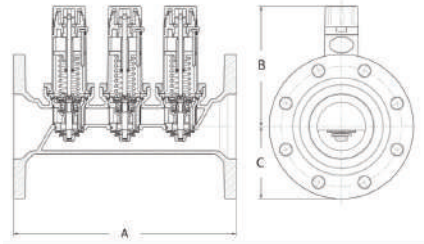
#### APPLICATIONS:

Commercial and industrial water applications.

#### AVAILABLE CONNECTIONS:

Threaded (FIP) 2-1/2" and 3"  
 ANSI CL 150 Flanged 2-1/2" and 3" and 4"

#### APPROVALS AND LISTINGS: N/A



| DIMENSIONS (inches) |        |       |        |
|---------------------|--------|-------|--------|
| Dimensions          | A      | B     | C      |
| 2-1/2 FIP           | 13-3/8 | 7-1/2 | 2-3/16 |
| 2-1/2 Flanged       | 13     | 7-1/2 | 3-1/2  |
| 3 FIP               | 15-3/8 | 7-1/2 | 2-9/16 |
| 3 Flanged           | 13-1/8 | 7-1/2 | 3-3/4  |
| 4 Flanged           | 13-7/8 | 7-1/2 | 4-1/2  |

| PRODUCT DESCRIPTION                      | PART NUMBER |
|------------------------------------------|-------------|
| <b>EB25 LEAD FREE MULTI-CARTRIDGE</b>    |             |
| 2-1/2" EB25 Multi-Cartridge Threaded NPT | 23994-0055  |
| 2-1/2" EB25 Multi-Cartridge Flanged      | 23996-0055  |
| 3" EB25 Multi-Cartridge Threaded NPT     | 23995-0055  |
| 3" EB25 Multi-Cartridge Flanged          | 23997-0055  |
| 4" EB25 Multi-Cartridge Flanged          | 23998-0055  |

 BIM component on website

\*The back-pass check feature allows for a reverse flow of water though the regulator in the event that outlet pressure increases to exceed supply pressure. Thermal expansion, created by a water heater for instance, can cause water pressure to increase. Without the back-pass check, water cannot flow in reverse.

## PRESSURE REGULATING VALVES



### E3

#### COMMERCIAL, RESIDENTIAL

The Cash Acme E3 Pressure Reducing and Regulating Valve automatically reduces a high inlet pressure to a lower delivery pressure and maintains the lower pressure within acceptable limits. The valve provides substantially higher capacity and closer regulation for more demanding and higher quality installations. The Cash Acme E3 incorporates a yoke-type design, allowing the regulator to close against the inlet pressure and provide quieter operation under wide and varying flow conditions.

The E3 is designed for use where supply line inlet pressure does not exceed 300 psi and is suitable for either cold or hot [to 180°F (82.2°C)] water service for a variety of applications. The Cash Acme E3 is set at 45 psi and comes with an adjustable spring range of 20-70 psi. Low pressure (10-40 psi) and high pressure (71-150 psi) settings are also available.

#### FEATURES AND BENEFITS:

- Automatically reduces a high inlet pressure to a lower delivery pressure
- Solves problems of water hammer, pipe noise and rapid wearing of fixtures, faucets and valves
- Rugged bronze body
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

Maximum initial pressure: 250 psi  
 Maximum temperature: 180°F (82.2°C)  
 Service: Water  
 Outlet pressure range: 20-70 psi\*

\*Low (10-40 psi) and High (71-150 psi) pressure ranges are also available upon request. Contact Customer Service for available part numbers.

#### APPLICATIONS:

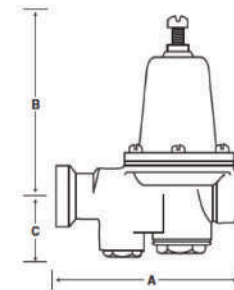
Commercial and domestic water applications.

#### AVAILABLE CONNECTIONS:

Threaded (NPT) 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2"

#### APPROVALS AND LISTINGS:

ASSE 1003, NSF 372. Listed by ASSE and IAPMO.



| DIMENSIONS (inches) |         |         |         |
|---------------------|---------|---------|---------|
| DIMENSIONS          | A       | B       | C       |
| 1/2                 | 5       | 5-1/4   | 1-3/4   |
| 3/4                 | 5-1/2   | 5-15/16 | 1-7/8   |
| 1                   | 6-7/16  | 7       | 2-11/16 |
| 1-1/4               | 7-5/8   | 7-1/2   | 3       |
| 1-1/2               | 8-7/8   | 8-1/2   | 3-1/4   |
| 2                   | 10-7/16 | 10-1/4  | 3-3/16  |

| PRODUCT DESCRIPTION              | PART NUMBER |
|----------------------------------|-------------|
| <b>E3 LEAD FREE THREADED NPT</b> |             |
| 1/2" E3 Threaded NPT             | 24700-0045  |
| 3/4" E3 Threaded NPT             | 24703-0045  |
| 1" E3 Threaded NPT               | 24706-0045  |
| 1-1/4" E3 Threaded NPT           | 24709-0045  |
| 1-1/2" E3 Threaded NPT           | 24712-0045  |
| 2" E3 Threaded NPT               | 24715-0045  |



# **PRESSURE REGULATING VALVES**

## **E41**

### **COMMERCIAL, RESIDENTIAL AND INDUSTRIAL**

The Cash Acme E41 Pressure Reducing and Regulating Valve automatically reduces a high inlet pressure to a lower delivery pressure and maintains the lower pressure within acceptable limits. The valve provides high capacity and close regulation for more demanding and higher quality installations. The E41 is similar in internal design to the E3 regulator with the exception that it is not fitted with an inbuilt strainer for systems which do not require the feature, or where separate individual strainers are preferred.

The E41 is suitable for installation in domestic water supply lines (after the meter) in systems where inlet pressures do not exceed 300 psi and where system temperatures do not exceed 180°F (82.2°C). The E41 is set at 45 psi and comes with an adjustable spring range of 20–70 psi. Low pressure (10–40 psi) and high pressure (71–150 psi) settings are also available.

#### **FEATURES AND BENEFITS:**

- Automatically reduces a high inlet pressure to a lower delivery pressure
- High capacities for higher quality installations
- Rugged bronze body
- Every valve is tested for performance prior to shipping

#### **PERFORMANCE:**

Maximum initial pressure: 300 psi  
 Maximum temperature: 180°F (82.2°C)  
 Service: Air and water  
 Outlet pressure range: 20–70 psi\*  
 \*Low (10–40 psi) and High (71–150 psi) pressure ranges are also available upon request.  
 Contact Customer Service for available part numbers.

#### **APPLICATIONS:**

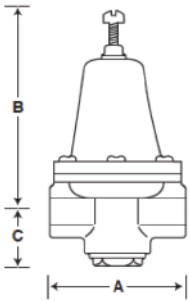
Commercial and domestic water applications.

#### **AVAILABLE CONNECTIONS:**

Threaded (NPT) 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2"

#### **APPROVALS AND LISTINGS:**

ASSE 1003, NSF 372. Listed by ASSE.



| DIMENSIONS (inches) |         |         |        |
|---------------------|---------|---------|--------|
| DIMENSIONS          | A       | B       | C      |
| 1/2                 | 3-3/8   | 5-1/4   | 1-1/2  |
| 3/4                 | 4-1/16  | 5-15/16 | 1-7/8  |
| 1                   | 4-9/16  | 7       | 2-5/16 |
| 1-1/4               | 5-3/16  | 8       | 2-3/8  |
| 1-1/2               | 5-13/16 | 8-1/2   | 2-5/8  |
| 2                   | 6-1/2   | 10-1/4  | 2-3/4  |

| PRODUCT DESCRIPTION               | PART NUMBER |
|-----------------------------------|-------------|
| <b>E41 LEAD FREE THREADED NPT</b> |             |
| 1/2" E41 Threaded NPT             | 24478-0045  |
| 3/4" E41 Threaded NPT             | 24480-0045  |
| 1" E41 Threaded NPT               | 24482-0045  |
| 1-1/4" E41 Threaded NPT           | 24484-0045  |
| 1-1/2" E41 Threaded NPT           | 24486-0045  |
| 2" E41 Threaded NPT               | 24487-0045  |



## E56

### COMMERCIAL, INDUSTRIAL

The E56 Piston Type Pressure Regulating Valve automatically reduces a high inlet pressure to a lower delivery pressure and maintains the lower pressure within acceptable limits. The valve is designed for water, air, light oil, gases (except steam) and other fluids not corrosive to brass. The E56 is exceptionally simple in construction and does not have a diaphragm. Instead it incorporates a chrome plated spring-opposed, balanced piston design. The balanced piston allows for extreme fluctuations in inlet pressures to act uniformly on the piston, producing more sensitive operation while providing for closer regulation and quiet performance.

The E56 is available with threaded or flanged connections in 2", 2-1/2", and 3" sizes. The E56 is available with a variety of factory set pressures ranging from 15-125 psi. The available spring ranges depend on the spring installed: 15-50 psi, 40-60 psi, 50-110 psi, or 80-125 psi.

#### FEATURES AND BENEFITS:

- Automatically reduces a high inlet pressure to a lower delivery pressure
- Large commercial and industrial water or air service installations
- Balanced piston design provides for closer regulation and quiet performance
- Simple, dependable construction
- Available with threaded or flanged ends
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

Maximum initial pressure: 400 psi (threaded), 225 psi (150 lb ANSI flanged)  
 Maximum temperature: 180°F (82.2°C)  
 Service: Air, water, light oils and gasses (except steam)  
 Outlet pressure range: 15-50 psi, 40-60 psi, 50-110 psi and 80-125 psi\*

\*Additional pressure settings available. Contact Customer Service for available ranges and part numbers.

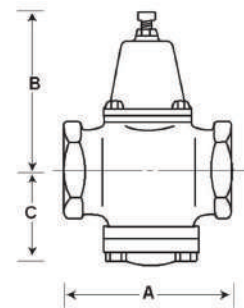
#### APPLICATIONS:

Large commercial and industrial water, air, light oil and gas (except steam) service installations.

#### AVAILABLE CONNECTIONS:

Threaded (NPT) 2", 2-1/2" and 3"  
 ANSI CL 150 Flanged 2", 2-1/2" and 3"

#### APPROVALS AND LISTINGS: N/A



| DIMENSIONS (inches) |                    |       |   |       |
|---------------------|--------------------|-------|---|-------|
| Size                | CONNECTION STYLE   | A     | B | C     |
| 2                   | Threaded           | 7-1/2 | 7 | 3-1/2 |
| 2-1/2               | Threaded           | 7-1/2 | 7 | 3-1/2 |
| 3                   | Threaded           | 9-1/4 | 7 | 3-1/2 |
| 2                   | 150 lb MSS Flanges | 8-1/4 | 7 | 3-1/2 |
| 2-1/2               | 150 lb MSS Flanges | 8-1/4 | 7 | 3-1/2 |
| 3                   | 150 lb MSS Flanges | 8-1/4 | 7 | 3-3/4 |

| PRODUCT DESCRIPTION                          | PART NUMBER |
|----------------------------------------------|-------------|
| <b>E56 LEAD FREE HIGH CAPACITY REGULATOR</b> |             |
| 2" E56 Threaded NPT                          | 24454-0045  |
| 2" E56 Flanged                               | 24457-0045  |
| 2-1/2" E56 Threaded NPT                      | 24455-0045  |
| 2-1/2" E56 Flanged                           | 24458-0045  |
| 3" E56 Threaded NPT                          | 24456-0045  |
| 3" E56 Flanged                               | 24459-0045  |



# **PRESSURE REGULATING VALVES**

## **EB75**

### **INDUSTRIAL**

The EB75 is a compact, iron-body pressure reducing and regulating valve designed for installations where small size and economy are important. Because of the iron body, this valve is not recommended for use in potable water applications. The EB75 comes factory set at 45 psi but has an adjustment range of 10-70 psi. The valve also comes in a low pressure range of 0-20 psi.

#### **FEATURES AND BENEFITS:**

- Inbuilt back-pass check allows water to flow back through the regulator in cases of thermal expansion caused by hot water heating devices\*
- Fully pressure-balanced piston automatically reduces and regulates high inlet pressures from a maximum of 300 psi down to 45 psi at standard factory setting
- Every valve is tested for performance prior to shipping

#### **PERFORMANCE:**

Maximum initial pressure: 300 psi  
 Maximum temperature: 180°F (82.2°C)  
 Service: Water  
 Outlet pressure range: 10-70 psi<sup>1</sup>  
<sup>1</sup>0-20 psi is also available upon request

#### **APPLICATIONS:**

Non-potable industrial water system applications.

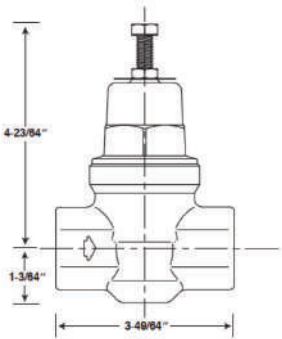
#### **AVAILABLE CONNECTIONS:**

Threaded (NPT) 1/2" and 3/4"

#### **APPROVALS AND LISTINGS:** N/A



| PRODUCT DESCRIPTION                                                          | PART NUMBER |
|------------------------------------------------------------------------------|-------------|
| <b>EB75 NON-POTABLE PRESSURE REGULATORS FOR WATER &amp; AIR</b>              |             |
| 1/2" EB75 FPT X FPT (Valve is not a cartridge based design; 0-20 psi range)  | 20658-0005  |
| 3/4" EB75 FPT X FPT (Valve is not a cartridge based design; 0-20 psi range ) | 20662-0005  |
| 1/2" EB75 FPT X FPT (Cartridge based design; 10-70 psi range)                | 22999-0045  |
| 3/4" EB75 FPT X FPT (Cartridge based design; 10-70 psi range)                | 23000-0045  |
| <b>E75P NON-POTABLE PRESSURE REGULATORS FOR PROPANE</b>                      |             |
| 1/2" Threaded Inlet                                                          | 20657-0008  |
| 1/2" Threaded Inlet with Clean-Out Plug                                      | 20664-0010  |



\*The back-pass check feature allows for a reverse flow of water though the regulator in the event that outlet pressure increases to exceed supply pressure. Thermal expansion, created by a water heater for instance, can cause water pressure to increase. Without the back-pass check, water cannot flow in reverse.



## PRV REPAIR KITS

### RESIDENTIAL

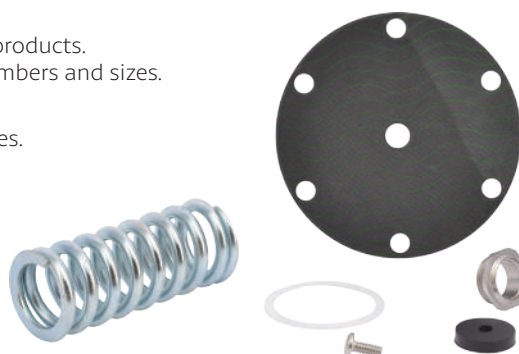
Pressure Regulator Repair Kits contain internal components to repair Cash Acme PRV products. The applicable kit configuration(s) matches up with existing Cash Acme PRV model numbers and sizes.

#### APPLICATIONS:

Used for the maintenance and repair of the internal components of existing PRV devices.

#### AVAILABLE CONNECTIONS:

EB45 Cartridge Kits  
EB25 Cartridge Kits  
E3 Repair Kits  
E41 Repair Kits  
E56 Repair Kits



| PRODUCT DESCRIPTION                                         | PART NUMBER |
|-------------------------------------------------------------|-------------|
| <b>EB45 REPAIR KITS</b>                                     |             |
| EB45 Cartridge Kit-Compact Model (1/2"-3/4" Compact Models) | 23870       |
| EB45 Cartridge Kit-Classic Model (1/2"-1" Classic Models)   | 22595       |
| EB45 Cartridge Kit-(1-1/4"-2" Models)                       | 23871       |
| <b>EB25 REPAIR KITS</b>                                     |             |
| EB25 Cartridge Kit-(1/2"-1" Models)                         | 23148       |
| EB25 Cartridge Kit-(1-1/4"-2" Models and Multi-Cartridge)   | 23149       |
| <b>E3 REPAIR KITS</b>                                       |             |
| 1/2" Repair Kit                                             | 11488       |
| 3/4" Repair Kit                                             | 11489       |
| 1" Repair Kit                                               | 11490       |
| 1-1/4" Repair Kit                                           | 11491       |
| 1-1/2" Repair Kit                                           | 11492       |
| 2" Repair Kit                                               | 11493       |
| <b>E41 REPAIR KITS</b>                                      |             |
| 1/2" Repair Kit                                             | 11259       |
| 3/4" Repair Kit                                             | 11260       |
| 1" Repair Kit                                               | 11261       |
| 1-1/4" Repair Kit                                           | 11262       |
| 1-1/2" Repair Kit                                           | 11263       |
| 2" Repair Kit                                               | 11264       |
| <b>E56 REPAIR KIT</b>                                       |             |
| All Repair Kit                                              | 20778       |

# THERMOSTATIC MIXING VALVES

Thermostatic Mixing Valves (TMVs) are one of the most critical components of any plumbing system. TMVs are responsible for accurately controlling the temperature of the water supply in order to help prevent scald injuries, reduce the risk of Legionella bacteria growth, and add comfort by increasing the amount of available hot water. They are installed at the water heater or the fixture, safely mixing and delivering water at a controlled temperature. TMVs are also used to accurately temper water for underfloor and hydronic heating applications.

Cash Acme is committed to quality. Our TMVs are manufactured in a state-of-the-art ISO 9001 compliant facility in Brisbane, Australia, and are certified to various plumbing standards such as ASSE 1017, ASSE 1069 ASSE 1070, CSAB125, NSF/ANSI61, and NSF/ANSI 372. They are also listed with ASSE, CSA, & IAPMO for use in accordance with U.S. and Canadian plumbing codes. Every valve manufactured has been tested for function, safety, and performance prior to being shipped so that customers can install Cash Acme TMVs with confidence.

CASH ACME HEATG



ASSE1069



## THERMOSTATIC MIXING VALVES



# TANK BOOSTER

## COMMERCIAL, RESIDENTIAL

The Cash Acme Tank Booster combines a Thermostatic Mixing Valve (TMV), a Flexible Connector and a Water Heater Tee in one package, and when combined with elevated storage temperatures, can effectively double a household's hot water heater capacity while delivering hot water at safe temperatures in residential/commercial applications. Available in regular and "PRO" models, both versions of the TMV are factory set at 120°F (48.9°C), but may be easily adjusted, and can be used with SharkBite Flexible Water Heater Connectors and Ball Valves for easy installation in systems using copper, CPVC or PEX tubing—no need for additional transition fittings.

**Tank Booster** model features a knob adjustment with tamper-evident sticker, lockable adjustment, with a temperature range of 90°F (32.2°C)–130°F (54.4°C), non–return check valves at both inlets, and filters at both inlets.

**Tank Booster PRO** model features a lockable adjustment with a temperature range of 90°F (32.2°C)–130°F (54.4°C), recirculation port, non–return check valves and filters at both inlets. It is dual listed for water distribution and for sanitary applications.

### FEATURES AND BENEFITS:

- Precise temperature control means safer hot water from all outlets
- Allows the water heater to be set at 140°F (60°C) or higher, yielding greater effective hot water volume and reducing the chance of growth of Legionella bacteria
- Every valve is tested for performance on an automated testing station during the assembly process
- Robust, low complexity construction for superior reliability.
- Mixed outlet flow of water reduces to a trickle in case of cold water supply failure, providing greater end user safety
- Adjustable and lockable mechanism minimizes unauthorized tampering with valve setting
- Factory set, locked to maximum 120°F (48.9°C)
- Recirculation port with plug decreases potential heat loss

### PERFORMANCE:

|                               |                             |
|-------------------------------|-----------------------------|
| Outlet temperature range      | 90–130°F (32.2–54.4°C)      |
| Factory set temperature range | 115–120°F (46.1–48.9°C)     |
| Temp. hot supply              | 120–180°F (48.9–82.2°C)     |
| Temp. cold supply             | 39–80°F (3.9–26.7°C)        |
| Maximum pressure              | 230 psi (1600 kPa)          |
| Flow rate, minimum            | 1 gpm (3.8 l/min)           |
| Flow rate, maximum            | 11 gpm (42 l/min) at 45 psi |

### APPLICATIONS:

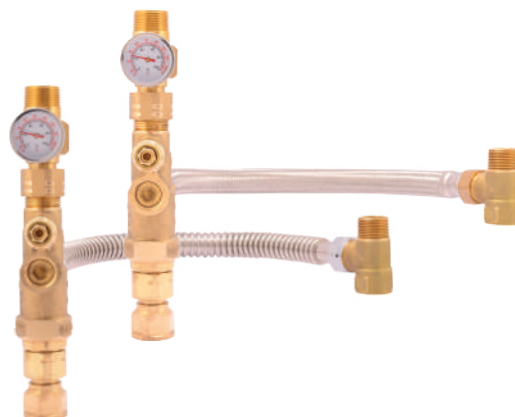
Domestic and commercial hot water distribution. To control water temperature at the source of heat (hot water tank) or point-of-use\* (sinks, lavatories, or bath tubs).

### AVAILABLE CONNECTIONS:

3/4" MNPT mix outlet x 3/4" FNPT union fitting x 3/4" NPSH cold inlet.

### APPROVALS AND LISTINGS:

ASSE 1017, ASSE 1070\*, CSA B125.3, NSF/ANSI 372 (Lead Free), NSF/ANSI 61. Listed by ASSE and IAPMO.



| PRODUCT DESCRIPTION                                                                          | PART NUMBER |
|----------------------------------------------------------------------------------------------|-------------|
| <b>TANK BOOSTER PRO – US ONLY</b>                                                            |             |
| 3/4" Heatguard Tank Booster Pro with Corrugated Hose, Integral Checks, and Temperature Gauge | 24643       |
| 3/4" Heatguard Tank Booster Pro with Braided Hose, Integral Checks, and Temperature Gauge    | 24644       |

| PRODUCT DESCRIPTION                                                      | PART NUMBER |
|--------------------------------------------------------------------------|-------------|
| <b>TANK BOOSTER PRO – US AND CANADA</b>                                  |             |
| 3/4" Heatguard Tank Booster Pro with Corrugated Hose and Integral Checks | 24639       |
| 3/4" Heatguard Tank Booster Pro with Braided Hose and Integral Checks    | 24832       |

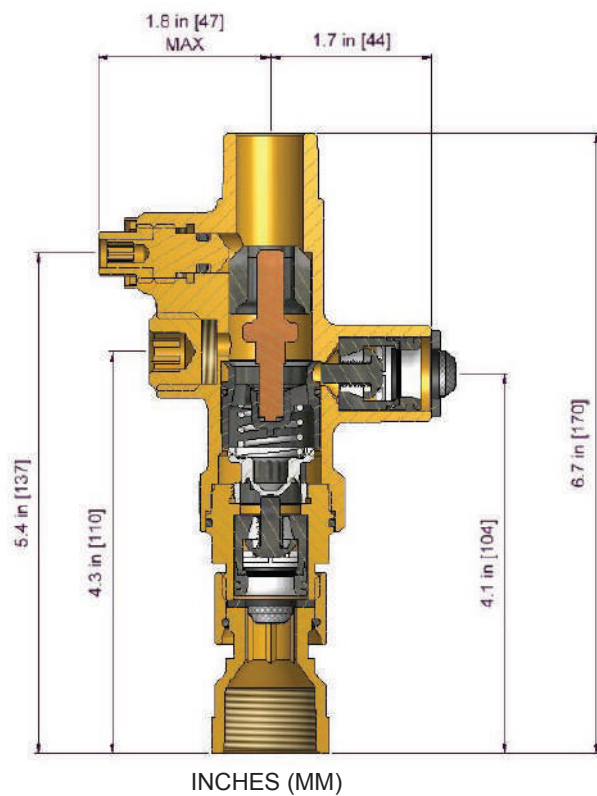
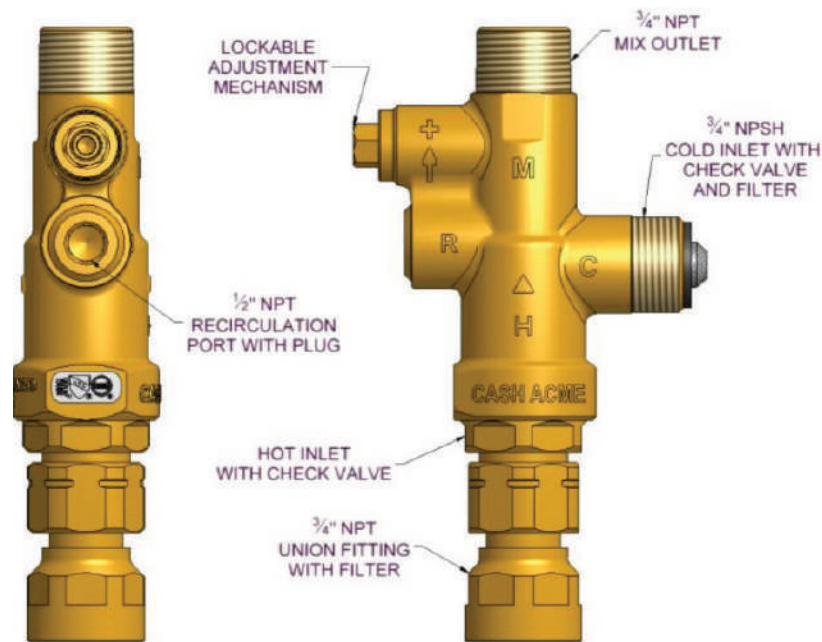
☐ BIM component on website



**THERMOSTATIC MIXING VALVES**

**TANK BOOSTER CONT.**

**TANK BOOSTER PRO CONNECTIONS**





## THERMOSTATIC MIXING VALVES



### HG110 D

#### COMMERCIAL, RESIDENTIAL

The HG110 D LF, a triple-listed thermostatic mixing valve, delivers water at a safe 120°F (48.9°C) or lower from all outlets, while allowing the water heater to be set at a germ-killing 140°F (60°C) or higher which aids in preventing the growth of Legionella bacteria in the water heater. The higher tank temperature means that hot water demands can be satisfied longer. Every valve is tested for performance prior to shipping. Adjustable and lockable mechanism minimizes unauthorized tampering with valve setting. Each valve is factory set and locked to a maximum 120°F (48.9°C). Adj. outlet temperature range: 85–130°F (29.4–54.4°C).

#### FEATURES AND BENEFITS:

- Certified for distribution and individual/multiple point-of-use applications for safer hot water from all outlets
- Allows the water heater to be set at 140°F (60°C) or higher, yielding greater effective hot water volume and reducing the chance of growth of Legionella bacteria
- Every valve is tested for performance on an automated testing station during the assembly process
- Robust, low complexity construction for superior reliability
- Mixed outlet flow of water reduces to a trickle in case of cold water supply failure, providing greater end user safety
- Adjustable and lockable mechanism minimizes unauthorized tampering with valve setting
- Factory set, locked to maximum 120°F (48.9°C)

#### PERFORMANCE:

|                          |                                                              |
|--------------------------|--------------------------------------------------------------|
| Outlet temperature range | 85–130°F (29.4–54.4°C) Factory set and locked 120°F (48.9°C) |
| Factory set and locked   | 120°F (48.9°C)                                               |
| Temp. hot supply         | 120–180°F (48.9–82.2°C)                                      |
| Temp. cold supply        | 39–80°F (3.9–26.7°C)                                         |
| Maximum pressure         | 230 psi (1600 kPa)                                           |
| Flow rate, minimum       | 1 gpm (3.8 l/min)                                            |
| Flow rate, maximum       | 20 gpm (76 l/min)                                            |

#### APPLICATIONS:

Domestic and Commercial hot water distribution. To control water temperature at the source of heat (hot water tank), point-of-use (sinks, lavatories, or bath tubs) or multiple fixtures (multiple sinks or gang shower applications where bather has no access to temperature control).

#### AVAILABLE CONNECTIONS:

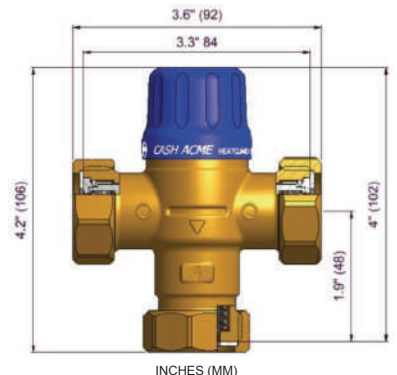
|                  |                   |
|------------------|-------------------|
| Sweat            | 1/2", 3/4" and 1" |
| Barb (PEX)       | 1/2" and 3/4"     |
| FNPT             | 1/2" and 3/4"     |
| MNPT             | 3/4"              |
| CPVC             | 1/2" and 3/4"     |
| SharkBite Union  | 1/2" and 3/4"     |
| Direct SharkBite | 1/2" and 3/4"     |
| Expansion        | 1/2" and 3/4"     |

#### APPROVALS AND LISTINGS:

ASSE 1017, 1069 & 1070, CSA B125.3, NSF/ANSI 372 (Lead Free), NSF/ANSI 61. Listed by ASSE, CSA and IAPMO.



| PRODUCT DESCRIPTION                                                    | PART NUMBER |
|------------------------------------------------------------------------|-------------|
| <b>HG110-D LEAD FREE</b>                                               |             |
| 1/2" HG110-D with Integrated SharkBite Connections and Integral Checks | 24548       |
| 3/4" HG110-D with Integrated SharkBite Connections and Integral Checks | 24549       |
| 1/2" HG110-D with SharkBite Union Connections and Integral Checks      | 24504       |
| 3/4" HG110-D with SharkBite Union Connections and Integral Checks      | 24505       |
| 1/2" HG110-D with FNPT Connections and Integral Checks                 | 24510       |
| 3/4" HG110-D with MNPT Connections and Integral Checks                 | 24511       |
| 3/4" HG110-D with FNPT Connections and Integral Checks                 | 25523       |
| 1/2" HG110-D with Sweat Connections and Integral Checks                | 24501       |
| 3/4" HG110-D with Sweat Connections and Integral Checks                | 24502       |
| 1" HG110-D with Sweat Connections and Integral Checks                  | 24503       |
| 1/2" HG110-D with CPVC Connections and Integral Checks                 | 24508       |
| 3/4" HG110-D with CPVC Connections and Integral Checks                 | 24509       |
| 1/2" HG110-D with Barb Connections and Integral Checks                 | 24506       |
| 3/4" HG110-D with Barb Connections and Integral Checks                 | 24507       |



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## THERMOSTATIC MIXING VALVES

### HG110 D *CONTINUED*

| PRODUCT DESCRIPTION                                         | PART NUMBER |
|-------------------------------------------------------------|-------------|
| <b>HG110-D LEAD FREE</b>                                    |             |
| 1/2" HG110-D with Expansion Connections and Integral Checks | 25948       |
| 3/4" HG110-D with Expansion Connections and Integral Checks | 25949       |

### HG160

#### COMMERCIAL, RESIDENTIAL

The HG160 LF is a next generation Temperature Actuated Mixing Valve that mixes hot water with cold to deliver tempered water at a controlled temperature, at flow rates as low as 0.34 gpm (1.3 l/min) or as high as 11 gpm (42 l/m). The Heatguard® 160 is designed to assist in prevention of scalding and thermal shock. The Heatguard 160 LF is a compact, robust, simple product incorporating the latest in thermostatic technology. Every valve is tested for performance prior to shipping. Adjustable and lockable mechanism minimizes unauthorized tampering with valve setting. Each valve is factory set and locked to a maximum 120°F (48.9°C). Adj. outlet temperature range: 95–120°F (35–48.9°C).

#### FEATURES AND BENEFITS:

- Accurate temperature control, even under varying supply conditions
- Robust, low complexity construction for superior reliability
- Mixed outlet flow of water reduces to a trickle in case of cold water supply failure, providing greater end user safety
- Unique, purpose designed adjuster tool minimizes unauthorized tampering with valve setting
- Every valve is tested for performance on an automated testing station during the assembly process

#### PERFORMANCE:

|                               |                         |
|-------------------------------|-------------------------|
| Adj. outlet temperature range | 95–120°F (35–48.9°C)    |
| Factory set temperature range | 115–120°F (46.1–48.9°C) |
| Temp. hot supply              | 120–180°F (48.9–82.2°C) |
| Temp. cold supply             | 39–80°F (3.9–26.7°C)    |
| Maximum pressure              | 145 psi (1000 kPa)      |
| Flow rate, minimum            | 0.34 gpm (1.3 l/min)    |
| Flow rate, maximum            | 11 gpm (42 l/min)       |

#### APPLICATIONS:

Domestic and Commercial point-of-use. The Heatguard 160 is intended to control the water temperature to individual or multiple fixtures such as sinks, lavatories, or bath tubs to reduce the risk of scalding and thermal shock, where more flow is required than the HG 145. It can also be installed in gang shower applications where the bather has no access to the temperature adjustment means.

#### AVAILABLE CONNECTIONS:

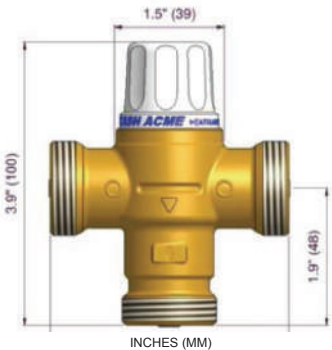
|                |               |
|----------------|---------------|
| Sweat          | 1/2"          |
| Barb (PEX)     | 1/2" and 3/4" |
| Threaded (NPT) | 1/2" and 3/4" |
| CPVC           | 1/2" and 3/4" |
| SharkBite      | 1/2" and 3/4" |

#### APPROVALS AND LISTINGS:

ASSE 1069 & 1070, CSA B125.3, NSF/ANSI 372 (Lead Free), NSF/ANSI 61. Listed by ASSE, CSA and IAPMO



| PRODUCT DESCRIPTION                                          | PART NUMBER |
|--------------------------------------------------------------|-------------|
| <b>HG160 LEAD FREE</b>                                       |             |
| 1/2" HG160 with SharkBite Connections and Integral Checks    | 24529       |
| 3/4" HG160 with SharkBite Connections and Integral Checks    | 24530       |
| 1/2" HG160 with Threaded NPT Connections and Integral Checks | 24536       |
| 1/2" HG160 with Sweat Connections and Integral Checks        | 24528       |
| 1/2" HG160 with CPVC Connections and Integral Checks         | 24533       |
| 3/4" HG160 with CPVC Connections and Integral Checks         | 24534       |
| 1/2" HG160 with Barb Connections and Integral Checks         | 24531       |
| 3/4" HG160 with Barb Connections and Integral Checks         | 24532       |





## THERMOSTATIC MIXING VALVES



### HG145

#### COMMERCIAL, RESIDENTIAL

The HG145 LF is a point-of-use thermostatic mixing valve designed to assist in the prevention of scalding. Superior, fast acting thermostatic element provides stable operation at flow rates as low as 0.34 gpm (1.3 l/min) or as high as 5.8 gpm (22 l/min). The Heatguard valve also reduces the outlet flow to a trickle in the event of cold water supply failure. Inlet connections are typical supply line 3/8" compression for 3/8" OD tube. The valve is supplied standard with check valves at hot and cold water inlets. Compact design easily fits under or behind a single basin. Adj. outlet temperature range: 95–118°F (35–47.8°C).

#### FEATURES AND BENEFITS:

- Compact design easily fits under or behind a single basin
- Accurate temperature control with flows as low as 0.34 gpm (1.3 l/min) for increased user comfort and convenience, (especially with sensor faucets)
- Robust, low complexity construction for superior reliability
- Mixed outlet flow of water reduces to a trickle in case of cold water supply failure, providing greater end user safety
- Every valve is tested for performance on an automated testing station during the assembly process

#### PERFORMANCE:

|                               |                             |
|-------------------------------|-----------------------------|
| Adj. outlet temperature range | 95–118°F (35–47.8°C)        |
| Factory set temperature range | 104–110°F (40–43.3°C)       |
| Temp. hot supply              | 120–194°F (48.9–90°C)       |
| Temp. cold supply             | 39–85°F (3.9–29.4°C)        |
| Maximum pressure              | 230 psi (1600 kPa)          |
| Flow rate, minimum            | 0.34 gpm (1.3 l/min)        |
| Flow rate, maximum            | @ 45 psi 5.8 gpm (22 l/min) |

#### APPLICATIONS:

Intended for under sink installations to provide safe outlet water temperature; ideal for individual faucets and electronic faucets.

#### AVAILABLE CONNECTIONS:

Compression suitable for 3/8" OD tube. Also available with cold water bypass and elbow insert fittings.

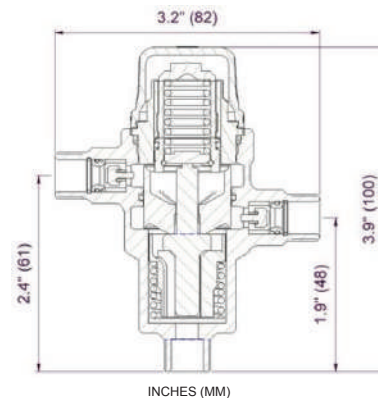
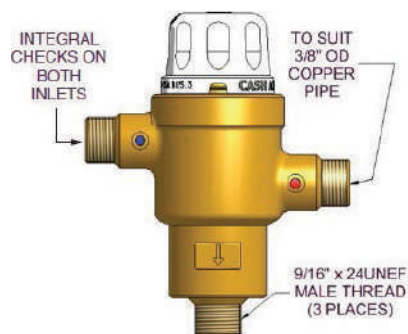
#### APPROVALS AND LISTINGS:

ASSE 1070, CSA B125.3, NSF/ANSI 372 (Lead Free), NSF/ANSI 61. Listed by ASSE, CSA and IAPMO.



| PRODUCT DESCRIPTION                                                      | PART NUMBER |
|--------------------------------------------------------------------------|-------------|
| <b>HG145 LEAD FREE</b>                                                   |             |
| 3/8" HG145 with Compression Connections and Integral Checks              | 24524       |
| 3/8" HG145 with Compression Connections, Tee & Elbow and Integral Checks | 24525       |

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# THERMOSTATIC MIXING VALVES



## HG135

### COMMERCIAL, RESIDENTIAL

The HG135 is a sleek and compact point of use mixing valve designed to assist in the prevention of scalding. It features a superior, fast acting thermostatic element that provides stable operation at flow rates as low as .25 gpm (.95 lpm). The Heatguard 135 also reduces the outlet flow to a trickle in the event of a cold water supply failure. The valve inlets and outlet connections are standard 3/8" supply line compression connections for use with 3/8" OD tube. The inlets of the valve feature check valves to prevent cross contamination as well as serviceable strainer screens to prevent the valve from being clogged with dirt or debris. Each valve includes a purpose built mounting bracket and hardware to neatly and securely fasten the valve to the wall. The compact design and pleasant aesthetics allow for this valve to easily be fit under or behind a single basin. Adj. outlet temperature range: 100 – 120°F (38–49°C)

#### FEATURES AND BENEFITS:

- Sleek, compact design and included purpose built mounting bracket provides for a clean and secure installation.
- Accurate temperature control with flows as low as 0.25 gpm (0.94 l/min) for increased user comfort and convenience, especially with sensor faucets
- Integrated inlet check valves prevent cross contamination
- Serviceable inlet strainer screens prevent dirt and debris from blocking the valve
- Robust, low complexity construction for superior reliability
- Mixed outlet flow of water reduces to a trickle in case of cold water supply failure, providing greater end user safety
- Every valve is tested for performance on an automated testing station during the assembly process

#### PERFORMANCE:

|                               |                            |
|-------------------------------|----------------------------|
| Adj. outlet temperature range | 100–120°F (37.8–48.9°C)    |
| Factory set temperature range | 105–110°F (40.6–43.3°C)    |
| Temp. hot supply              | 120–180°F (48.9–82.2°C)    |
| Temp. cold supply             | 39–80°F (3.9–26.7°C)       |
| Maximum pressure              | 230 psi (1600 kPa)         |
| Flow rate, minimum            | 0.34 gpm (0.95 lpm)        |
| Flow rate, maximum            | @ 45 psi 2.5 gpm (9.5 lpm) |

#### APPLICATIONS:

Intended for point of use/under sink installations to provide safe outlet water temperature; ideal for individual faucets and electronic faucets. Satisfies the requirement for ASSE 1070.AVAILABLE

#### AVAILABLE CONNECTIONS:

Compression suitable for 3/8" OD tube. Also available with cold water bypass tee.

#### APPROVALS AND LISTINGS:

ASSE 1070, ASME A112.1070, CSA B 125.7, NSF/ANSI 372 (Lead Free), NSF/ANSI 61. Listed by ASSE, CSA and IAPMO.



| PRODUCT DESCRIPTION                                                                    | PART NUMBER |
|----------------------------------------------------------------------------------------|-------------|
| <b>HG135 LEAD FREE WITH MOUNTING BRACKET &amp; HARDWARE AND INLET STRAINER SCREENS</b> |             |
| 3/8" HG135 Chrome Finish with Compression Connections and Integral Checks              | 25686       |
| 3/8" HG135 Chrome Finish with Compression Connections, Tee and Integral Checks         | 25687       |

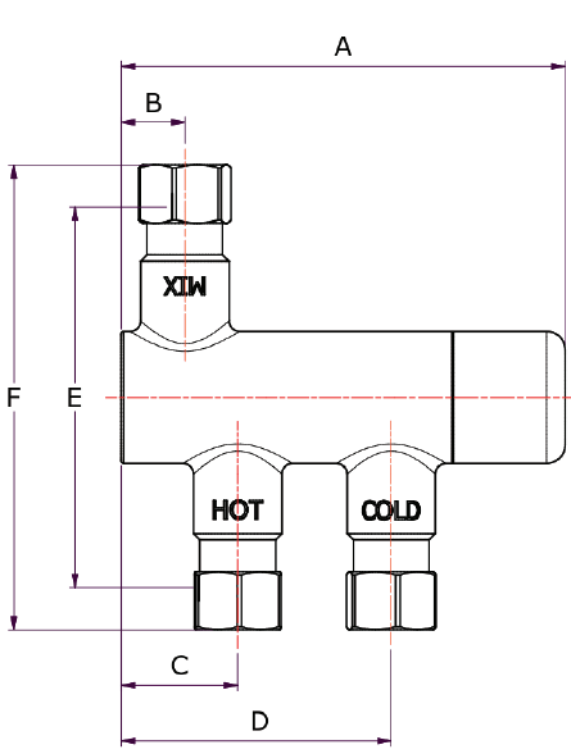
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**THERMOSTATIC MIXING VALVES**

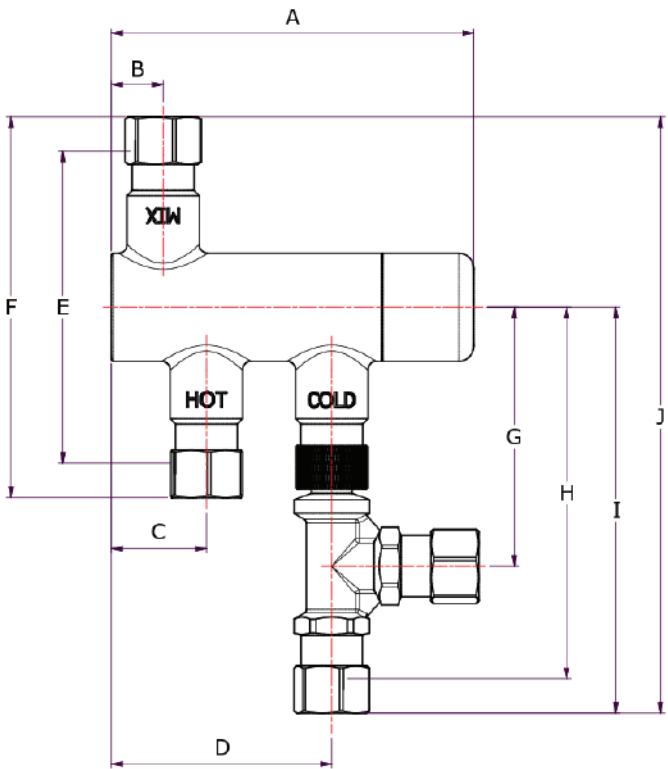


**HG135 CONT.**

**HG135 DIMENSIONS**



**25686**



**25687**

| MODEL | INLET | OUTLET | MIN FLOW RATE<br>(GPM) | DIMENSIONS (approximate) |      |     |    |     |    |     |    |     |    |     |    |     |      |     |      |     |      | Weight |       |      |      |
|-------|-------|--------|------------------------|--------------------------|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|------|-----|------|-----|------|--------|-------|------|------|
|       |       |        |                        | A                        |      | B   |    | C   |    | D   |    | E   |    | F   |    | G   |      | H   |      | I   |      | J      |       |      |      |
|       |       |        |                        | in.                      | mm   | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm   | in. | mm   | in. | mm   | in.    | mm    | lbs. | kg   |
| 25686 | 3/8"  | 3/8"   | 0.25                   | 3.3                      | 83.9 | 0.5 | 12 | 0.9 | 22 | 2.0 | 51 | 2.8 | 72 | 3.5 | 88 | -   | -    | -   | -    | -   | -    | -      | -     | 0.70 | 0.32 |
| 25687 | 3/8"  | 3/8"   | 0.25                   | 3.3                      | 83.9 | 0.5 | 12 | 0.9 | 22 | 2.0 | 51 | 2.8 | 72 | 3.5 | 88 | 2.4 | 59.9 | 3.4 | 85.9 | 3.7 | 93.9 | 5.4    | 137.9 | 0.85 | 0.39 |



# THERMOSTATIC MIXING VALVES

## HG110-HX

### COMMERCIAL, RESIDENTIAL

The HG110-HX LF temperature actuated thermostatic mixing valve mixes hot and cold water to deliver reduced temperature hot water. This Heatguard valve offers a high flow rate which reduces system pressure losses, and robust, low complexity construction. An adjustable and lockable handle prevents tampering. The extended outlet temperature range—up to 176°F (80°C)—makes the 110-HX LF ideal for heating system applications. Adj. outlet temperature range: 85–176°F (29.4–80°C).

#### FEATURES AND BENEFITS:

- High flow rate design for lower pressure losses within the system providing efficient system performance for lower running costs
- Robust, low complexity construction for superior reliability
- Integral union connections on all three ports for Easy and quick install and service
- Unique, purpose designed adjuster tool integrated with cap minimizes unauthorized tampering with valve setting
- Every valve is tested for performance on an automated testing station during the assembly process

#### PERFORMANCE:

|                                      |                         |
|--------------------------------------|-------------------------|
| Adj. outlet temperature range        | 85–176°F (29.4–80°C)    |
| Factory set outlet temperature range | 115–120°F (46.1–48.9°C) |
| Temp. hot supply                     | 120–180°F (48.9–82.2°C) |
| Temp. cold supply                    | 39–80°F (3.9–26.7°C)    |
| Maximum pressure                     | 230 psi (1600 kPa)      |
| Flow rate, minimum                   | 1 gpm (3.8 l/min)       |
| Flow rate, maximum                   | 20 gpm (76 l/min)       |

#### APPLICATIONS:

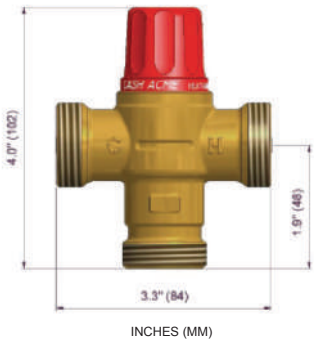
Hydronic and radiant heating systems.

#### AVAILABLE CONNECTIONS:

|                |                   |
|----------------|-------------------|
| Sweat          | 1/2", 3/4" and 1" |
| Threaded (NPT) | 1/2" and 3/4"     |
| SharkBite      | 3/4"              |
| Expansion      | 1/2" and 3/4"     |

#### APPROVALS AND LISTINGS:

ASSE 1017, CSA B125.3, NSF/ANSI 372 (Lead Free), NSF/ANSI 61. Listed by ASSE and IAPMO.



| PRODUCT DESCRIPTION                                          | PART NUMBER |
|--------------------------------------------------------------|-------------|
| <b>HG110-HX LEAD FREE</b>                                    |             |
| 1/2" HG110-HX with FNPT Connections and Integral Checks      | 24517       |
| 3/4" HG110-HX with MNPT Connections and Integral Checks      | 24518       |
| 1/2" HG110-HX with Sweat Connections and Integral Checks     | 24513       |
| 3/4" HG110-HX with Sweat Connections and Integral Checks     | 24514       |
| 1" HG110-HX with Sweat Connections and Integral Checks       | 24515       |
| 3/4" HG110-HX with SharkBite Connections and Integral Checks | 24867       |
| 1/2" HG110-HX with Expansion Connections and Integral Checks | 25947       |
| 3/4" HG110-HX with Expansion Connections and Integral Checks | 25983       |

# THERMOSTATIC MIXING VALVES



## HG115

### COMMERCIAL, RESIDENTIAL

The HG115 LF thermostatic mixing valve offers the same reliable protection of the 110-D, but on a larger scale. A fast acting, high quality thermostatic element senses the outlet water temperature and reacts to maintain a stable delivery temperature, even under changing flows or variations in supply temperatures. This Heatguard valve also greatly reduces the outlet flow in the event of a cold water supply failure. The adjusting handle can be locked at a desired temperature or function in an adjusting mode. It is clearly marked to indicate the direction to turn to achieve hotter or colder water temperatures. The valve delivers water at a maximum of 120°F (48.9°C), allowing the heater to be set at 140°F (60°C) or higher, thus providing a greater effective volume of hot water and reducing the chances of Legionella bacteria growth in the water. The maximum outlet water flow rate is 27.2 gpm, making it suitable for larger residential and commercial installations. Adjustable outlet temperature range: 85–176°F (29.4–80°C).

#### FEATURES AND BENEFITS:

- Delivers water at a maximum of 120°F (48.9°C) throughout the system for safer hot water from all outlets
- Allows the water heater to be set at 140°F (60°C) or higher, yielding greater effective hot water volume and reducing the chance of growth of Legionella bacteria
- Large sized valve with high flow rates can supply controlled water to a large installation
- Robust, low complexity construction for superior reliability
- Mixed outlet flow of water reduces to a trickle in case of cold water supply failure, providing greater end user safety
- Integral union connections on all three ports for easy and quick install and service

#### PERFORMANCE:

|                               |                         |
|-------------------------------|-------------------------|
| Adj. outlet temperature range | 85–176°F (29.4–80°C)    |
| Temp. hot supply              | 120–180°F (48.9–82.2°C) |
| Temp. cold supply             | 39–80°F (3.9–26.7°C)    |
| Maximum pressure              | 230 psi (1600 kPa)      |
| Flow rate, minimum            | 2.5 gpm (9.5 l/min)     |
| Flow rate, maximum            | 27.2 gpm (100 l/min)    |

#### APPLICATIONS:

Widely used in large domestic and standard commercial water distribution systems. Ideal for installation in: a) hydronic radiant heating systems in conjunction with the water heating source to distribute tempered water to the system; and b) a hot water system at the water heater to distribute controlled temperature water.

#### AVAILABLE CONNECTIONS:

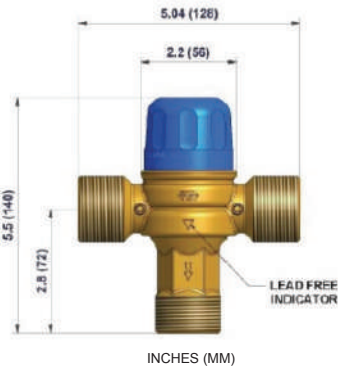
|                |                     |
|----------------|---------------------|
| Sweat          | 3/4", 1" and 1-1/4" |
| Threaded (NPT) | 3/4" and 1"         |

#### APPROVALS AND LISTINGS:

ASSE 1017, CSA B125.3, NSF/ANSI 372 (Lead Free), NSF/ANSI 61. Listed by ASSE and IAPMO.



| PRODUCT DESCRIPTION                                          | PART NUMBER |
|--------------------------------------------------------------|-------------|
| <b>HG115 LEAD FREE HIGH CAPACITY</b>                         |             |
| 3/4" HG115 with Threaded NPT Connections and Integral Checks | 24522       |
| 3/4" HG115 with Sweat Connections and Integral Checks        | 24519       |
| 1" HG115 with Sweat Connections and Integral Checks          | 24520       |
| 1-1/4" HG115 with Sweat Connections and Integral Checks      | 24521       |





# THERMOSTATIC MIXING VALVES



## TAFR

### COMMERCIAL, RESIDENTIAL

The Temperature Actuated Flow Reducer (TAFR) is designed to help protect against scalding. Automatically reduces water flow through fixture to 0.25 gpm if water temperature exceeds set temperature of 117°F (47.2°C). Thermal element senses high temperature water and shuts off flow to protect user. Device will only reset when water temperature drops to a safe level.

Available to suit shower heads and faucets (male and female thread).

#### FEATURES AND BENEFITS:

- Conforms to international safety standards
- Simple and effective scald prevention
- Quick installation and fits most showers and taps
- Strong lead free brass construction with a sleek chrome finish design
- Perfect for remodeling applications
- Ease of installation provides cost effective scald protection

#### PERFORMANCE:

##### Heatguard ShowerSafe Device Performance:

|                              |                         |
|------------------------------|-------------------------|
| Hot water supply temperature | 185°F (85°C) max.       |
| Max. flow rate               | 4.0 gpm                 |
| Shut-down                    | less than 0.25 gpm      |
| Nominal set temperature      | 117°F (47.2°C) ± 2°F    |
| Max. operating pressure      | 145 psi                 |
| Min. operating pressure      | less than 1.5 psi       |
| Threads                      | 1/2" NPT (inlet/outlet) |

##### Heatguard TapSafe Device Performance:

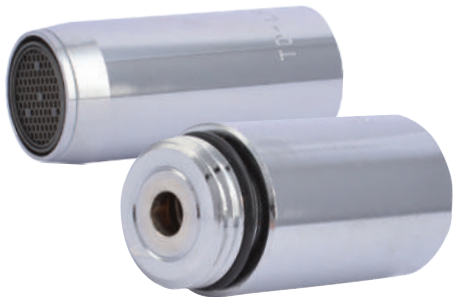
|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| Hot water supply temperature | 185°F (85°C) max.                                   |
| Max. flow rate               | 2.5 gpm                                             |
| Shut-down                    | less than 0.25 gpm                                  |
| Nominal set temperature      | 117°F (47.2°C) ± 2°F                                |
| Max. operating pressure      | 145 psi                                             |
| Min. operating pressure      | less than 1.5 psi                                   |
| Threads                      | Adaptor for standard male or female laundry faucets |

#### APPLICATIONS:

For shower or faucet spouts in private and public housing, child care centers, hospitals, hotels/motels, nursing homes and more.

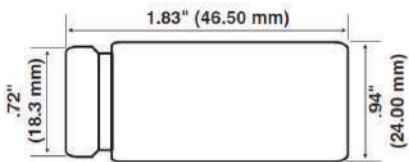
#### APPROVALS AND LISTINGS:

ASSE 1062, CSA B125.3, NSF/ANSI 372 (Lead Free), NSF/ANSI 61. Listed by ASSE and IAPMO.

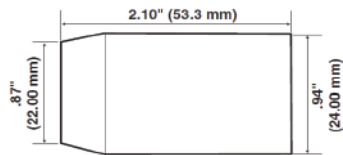


| PRODUCT DESCRIPTION                              | PART NUMBER |
|--------------------------------------------------|-------------|
| <b>HEATGUARD TAFR LEAD FREE SHUT-OFF DEVICES</b> |             |
| 1/2" Shower Device                               | 24718       |
| 1/2" Tap Device (For Faucet Spout)               | 24719       |

 BIM component on website



ShowerSafe 24718



TapSafe 24719

# MASTERGUARD® 600



## THERMOSTATIC MIXING VALVES



### COMMERCIAL, INDUSTRIAL

The MasterGuard® 600 Series features a range of high flow rate valves that mix hot water with cold water to deliver water at a safe, controlled temperature, typically 120°F (49°C). It features state of art, fast-acting, high-quality thermostatic mixing valve elements that sense the outlet temperature and react to maintain a stable delivery temperature even under varying and extremely low flows. The adjusting handle can be locked at the desired temperature.

#### FEATURES AND BENEFITS:

- Accurate temperature control, even at very low flows
- Fast reaction to changes in flow rate or supply temperature
- Robust, low complexity construction for superior reliability and improved user safety

#### PERFORMANCE:

|                          |                              |
|--------------------------|------------------------------|
| Outlet temperature range | 85 – 150°F (29.4 – 66°C)     |
| Factory set temp. range  | 116.5°F ± 3.5°F (47°C ± 2°C) |
| Temp. hot supply         | 120 – 180°F (48.9 – 82.2°C)  |
| Temp. cold supply        | 39 – 80°F (3.9 – 26.7°C)     |
| Maximum pressure         | 125 psi (862 kPa)            |
| Min. temp differential   | 25°F (47°C)                  |

#### APPLICATIONS:

Commercial and industrial facilities to distribute controlled temperature water to the domestic hot water system of the entire building or a section of the building.

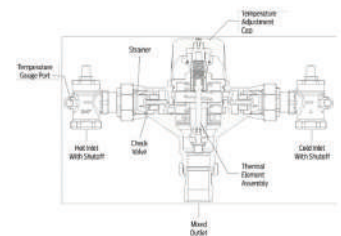
#### APPROVALS AND LISTINGS:

ASSE 1017, CSA B125.3, Listed by IAPMO, CSA, and ASSE



| MEASUREMENT (inches) |             |              |               |               |     |     |      |      |     |      |      |     |
|----------------------|-------------|--------------|---------------|---------------|-----|-----|------|------|-----|------|------|-----|
| Product              | Inlet (NPT) | Outlet (NPT) | Flow @ 45 psi | Min flow rate | A   | B   | C    | D    | E   | F    | G    | H   |
| 630                  | 3/4         | 1            | 64 gpm        | 5 gpm         | 7.3 | 1.4 | 12.1 | 14.5 | 5.2 | 7.6  | 9.0  | 3.6 |
| 640                  | 1           | 1-1/4        | 64 gpm        | 5 gpm         | 7.5 | 1.5 | 13.0 | 15.4 | 5.4 | 7.6  | 9.2  | 3.6 |
| 650                  | 1-1/4       | 1-1/2        | 129 gpm       | 6 gpm         | 9.8 | 1.8 | 14.7 | 17.5 | 6.3 | 8.7  | 10.6 | 4.5 |
| 660                  | 1-1/2       | 1-1/2        | 144 gpm       | 6 gpm         | 9.8 | 2.1 | 15.9 | 18.7 | 6.3 | 8.7  | 10.6 | 4.5 |
| 670                  | 1-1/2       | 2            | 191 gpm       | 10 gpm        | 9.9 | 2.1 | 19.1 | 21.9 | 6.4 | 12.2 | 10.8 | 6.1 |
| 680                  | 2           | 2            | 208 gpm       | 10 gpm        | 11  | 2.5 | 19.8 | 23.1 | 6.3 | 12.2 | 10.8 | 6.1 |

| PRODUCT DESCRIPTION                                   | PART NUMBER |
|-------------------------------------------------------|-------------|
| <b>MASTERGUARD 800 SERIES HIGH CAPACITY LEAD FREE</b> |             |
| MasterGuard 630 3/4"x1" LF                            | 25763       |
| MasterGuard 640 1" X 1-1/4" LF                        | 25764       |
| MasterGuard 650 1-1/4" X 1-1/2" LF                    | 25765       |
| MasterGuard 660 1-1/2" X 1-1/2" LF                    | 25766       |
| MasterGuard 670 1-1/2" X 2" LF                        | 25767       |
| MasterGuard 680 2" X 2" LF                            | 25768       |



BIM component on website

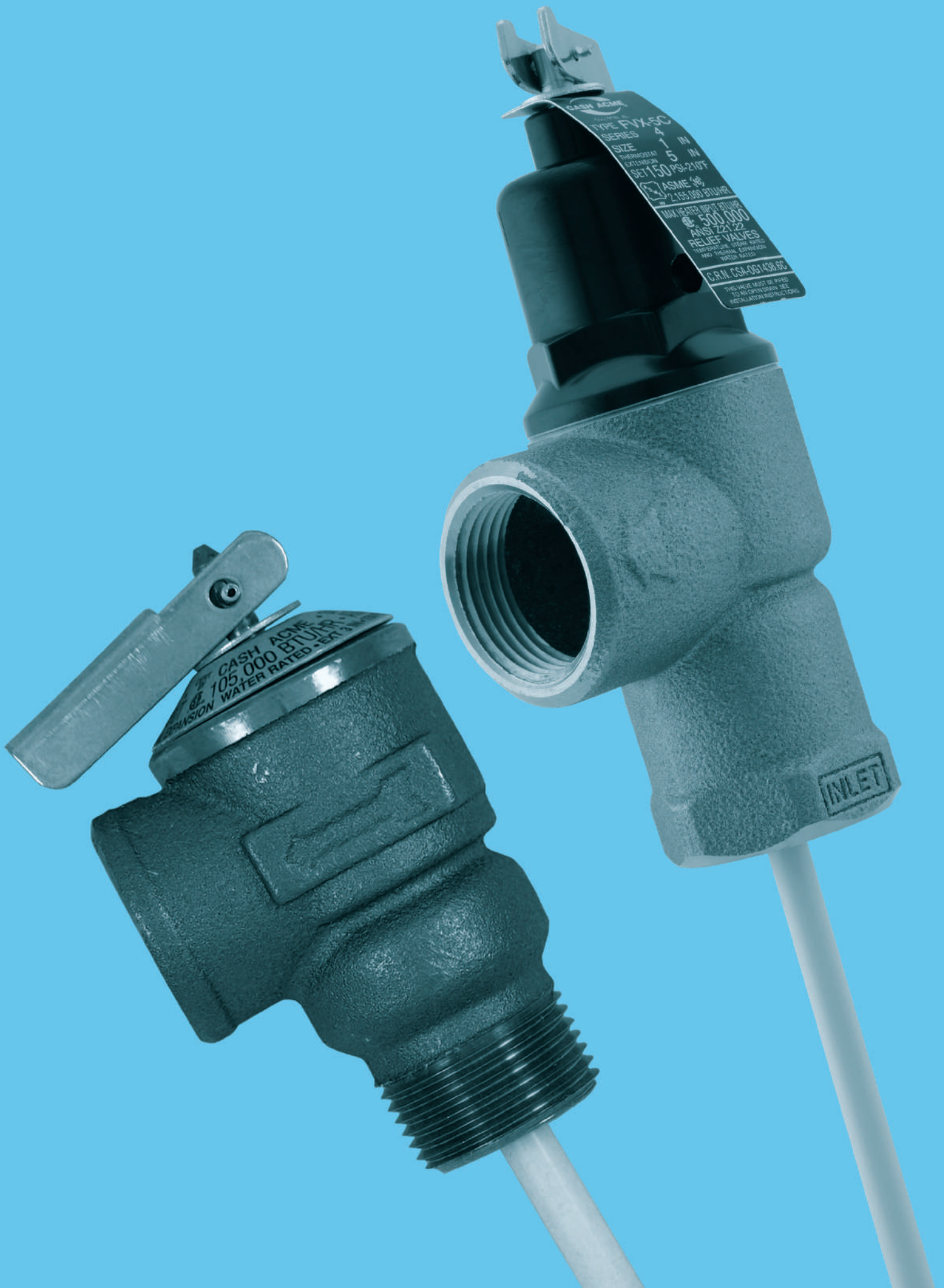
# TEMPERATURE & PRESSURE RELIEF VALVES



Cash Acme is an industry leader in producing Temperature & Pressure (T&P) Relief Valves for water heaters and hot water storage tanks. Cash Acme offers an extensive line of temperature and pressure relief valve products, including robust high capacity commercial products, compact residential models, and agricultural products.

Each pressure relief valve is tested for performance, quality and efficiency before it leaves our factory.

Our products include models that are ASME, ANSI and CSA (AGA) approved to protect water heaters from excess pressures and temperatures by discharging water. Relief valves are completely automatic and reset after the pressure has been relieved.





# TEMPERATURE & PRESSURE RELIEF VALVES

## NCLX

### RESIDENTIAL

The NCLX features include a cast bronze body, brass and stainless steel internal parts, silicone seat disc and stainless steel spring. The NCLX incorporates an inert thermal element coating that provides effective isolation from mineral deposits (liming). The NCLX comes standard with a test lever. The valve is completely automatic and reseats after either temperature or pressure relief. The NCLX is available in male inlets and female outlets with several options in shank and element lengths.

#### FEATURES AND BENEFITS:

- Incorporates an inert thermal element coating to provide effective isolation from mineral deposits (liming) and galvanic corrosion
- Completely automatic and reseats after temperature or pressure relief
- Ideal for all domestic water heater applications
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

Available Set Pressures 150 psi standard\*  
(75, 100, 125, and 175 psi available for select models; see Rating Table)

\*Other pressure settings may be available. Contact Customer Service.

Temperature Relief 210°F (98.9°C) standard  
[180°F (82.2°C) available for select models; see Rating Table]

Service Hot Water

#### APPLICATIONS:

Provides temperature and pressure protection for domestic water heater and storage tanks.

#### AVAILABLE CONNECTIONS:

Threaded (NPT) Male inlet and female outlet

#### APPROVALS AND LISTINGS:

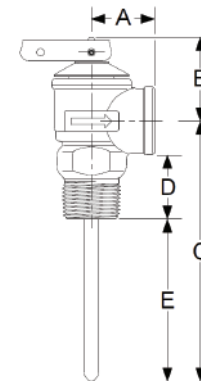
CSA Listed to ANSI Z21.22/CSA 4.4; NB listed to ASME Boiler Code Section IV (1/2" sizes are CSA Listed Only).



| CSA (ANSI Z21.22/CSA 4.4) & ASME (BOILER CODE SECTION IV) RATINGS |            |                     |                                           |                   |                   |                   |                   |
|-------------------------------------------------------------------|------------|---------------------|-------------------------------------------|-------------------|-------------------|-------------------|-------------------|
| Type                                                              | Size (NPS) | CSA Rating (BTU/hr) | ASME Rating at Pressure Setting Indicated |                   |                   |                   |                   |
|                                                                   |            |                     | 75 psig (BTU/hr)                          | 100 psig (BTU/hr) | 125 psig (BTU/hr) | 150 psig (BTU/hr) | 175 psig (BTU/hr) |
| NCLX-1                                                            | 1/2"       | 15,000              | -                                         | -                 | N/R               | N/R               | -                 |
| NCLX-1                                                            | 3/4"       | 95,000              | 300,000                                   | -                 | 500,000           | 500,000           | N/R               |
| NCLX-5                                                            | 1/2"       | 15,000              | -                                         | -                 | N/R               | N/R               | -                 |
| NCLX-5                                                            | 3/4"       | 105,000(1)          | 300,000                                   | N/R(2)            | 500,000           | 500,000           | N/R(2)            |
| NCLX-5L                                                           | 3/4"       | 105,000             | -                                         | -                 | -                 | 500,000           | -                 |
| NCLX-5LX                                                          | 3/4"       | 105,000             | -                                         | N/R(2)            | 500,000           | 500,000           | -                 |
| NCLX-5S                                                           | 3/4"       | 105,000             | -                                         | -                 | -                 | 500,000           | -                 |
| NCLX-LS                                                           | 3/4"       | 105,000             | -                                         | -                 | -                 | 500,000           | -                 |
| NCLX-A                                                            | 3/4"       | 105,000             | -                                         | N/R(2)            | -                 | 500,000           | -                 |
| NCLX-8                                                            | 3/4"       | 105,000             | -                                         | -                 | 500,000           | 500,000           | -                 |

- (1) For 3/4" NCLX-5 at 175 psig CSA Rating is 95,000 BTU/hr.  
(2) The 100 psig pressure set is only offered with the 180°F temperature relief.  
(3) N/R indicates Type is available but Not ASME Rated at the indicated pressure set.

| DIMENSIONS (inches) |            |        |        |        |        |         |
|---------------------|------------|--------|--------|--------|--------|---------|
| Type                | Size (NPS) | A      | B      | C      | D      | E       |
| NCLX-1              | 1/2        | 1-3/32 | 1-9/16 | 3-3/16 | 1-3/16 | 1-7/16  |
| NCLX-1              | 3/4        | 1-5/32 | 1-9/16 | 3-3/16 | 1-3/16 | 1-5/16  |
| NCLX-5              | 1/2        | 1-3/32 | 1-9/16 | 4-7/8  | 1-3/16 | 3-1/8   |
| NCLX-5              | 3/4        | 1-5/32 | 1-9/16 | 4-7/8  | 1-3/16 | 3-1/16  |
| NCLX-5L             | 3/4        | 1-5/32 | 1-9/16 | 4-7/8  | 2-3/32 | 2-1/8   |
| NCLX-5LX            | 3/4        | 1-5/32 | 1-9/16 | 4-7/8  | 2-5/16 | 1-7/8   |
| NCLX-5S             | 3/4        | 1-5/32 | 1-9/16 | 4-7/8  | 1-1/2  | 2-11/16 |
| NCLX-LS             | 3/4        | 1-5/32 | 1-9/16 | 4-7/8  | 2-5/8  | 1-9/16  |
| NCLX-A              | 3/4        | 1-5/32 | 1-9/16 | 4-7/8  | 3-5/16 | 7/8     |
| NCLX-8              | 3/4        | 1-5/32 | 1-9/16 | 9-3/4  | 1-3/16 | 7-7/8   |



## TEMPERATURE & PRESSURE RELIEF VALVES



### NCLX CONT.

| PRODUCT DESCRIPTION                                                                            | PART NUMBER |
|------------------------------------------------------------------------------------------------|-------------|
| <b>NCLX RESIDENTIAL TEMPERATURE &amp; PRESSURE RELIEF VALVES</b>                               |             |
| 1/2" NCLX-1                                                                                    | 16483-0150  |
| 3/4" NCLX-1                                                                                    | 16487-0150  |
| 1/2" NCLX-5, AGA only                                                                          | 15912-0150  |
| 3/4" NCLX-5                                                                                    | 15836-0150  |
| 3/4" NCLX-5L                                                                                   | 18821-0150  |
| 3/4" NCLX-5LX                                                                                  | 19783-0150  |
| 3/4" NCLX-5S                                                                                   | 21343-0150  |
| 3/4" NCLX-LS                                                                                   | 19084-0150  |
| 3/4" NCLX-8                                                                                    | 16372-0150  |
| 3/4" NCLX-8 with Extended Shank                                                                | 24971-0150  |
| 3/4" NCLX-A                                                                                    | 22348-0150  |
| 3/4" NCLX-5 for Water Heaters using PEX Pipe ASME, 180 F Element                               | 22830-0100  |
| 3/4" NCLX-5LX for Water Heaters using PEX Pipe ASME, 180 F Element                             | 22831       |
| 3/4" NCLX-A for Water Heaters using PEX Pipe ASME, 180 F Element                               | 22832       |
| <b>TEMPERATURE AND PRESSURE RELIEF VALVE WITH SHARKBITE OUTLET CONNECTION</b>                  |             |
| 3/4" NCLX-5LX w/ SharkBite Outlet Connection                                                   | 24609-0150  |
| <b>LEAD FREE NCLX RESIDENTIAL TEMPERATURE &amp; PRESSURE RELIEF VALVES CLAM SHELL PACKAGED</b> |             |
| 3/4" NCLX-5                                                                                    | 23576-0150  |
| 3/4" NCLX-LX                                                                                   | 23577-0150  |
| <b>LEAD FREE NCLX RESIDENTIAL TEMPERATURE &amp; PRESSURE RELIEF VALVES</b>                     |             |
| 1/2" NCLX-1                                                                                    | 23277-0150  |
| 3/4" NCLX-1                                                                                    | 23279-0150  |
| 1/2" NCLX-5 , AGA only                                                                         | 23278-0150  |
| 3/4" NCLX-5                                                                                    | 23261-0150  |
| 3/4" NCLX-5L                                                                                   | 23354-0150  |
| 3/4" NCLX-5LX                                                                                  | 23266-0150  |
| 3/4" NCLX-5S                                                                                   | 23263-0045  |
| 3/4" NCLX-LS                                                                                   | 23268-0150  |
| 3/4" NCLX-8                                                                                    | 23272-0150  |
| 3/4" NCLX-A                                                                                    | 23270-0150  |





## TEMPERATURE & PRESSURE RELIEF VALVES

### FVX/FVMX

#### COMMERCIAL, RESIDENTIAL

The FVX Series combination temperature and pressure relief valves are designed to offer high capacity protection for domestic and commercial water heating devices. The FVX Series Valves are fully automatic with the valves resetting after either temperature or pressure relief.

The larger FVX Series Valves are well suited for such commercial applications as restaurants, hospitals and laundries.

All FVX Series valves through 1-1/4" have coated thermal elements that protect against mineral build-up. The 1-1/2" and 2" valves have stainless steel elements. The FVX Series Valves are available with male (FVMX) or female (FVX) inlet connections and female only outlet connections.

#### FEATURES AND BENEFITS:

- Offers high capacity protection for domestic and commercial hot water heating devices
- The valves reseal automatically after either temperature or pressure relief
- The larger series valves are well suited for commercial applications
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

Available Set Pressures 75-150 psi  
Temperature Relief 210°F (98.9°C)  
Service Hot water

#### APPLICATIONS:

Commercial and domestic hot water heating applications.

#### AVAILABLE CONNECTIONS:

Threaded (NPT) Male or female inlet and female outlet

#### APPROVALS AND LISTINGS:

CSA Listed to ANSI Z21.22/CSA 4.4; NB Listed to ASME Boiler Code Section IV.



| FVX SERIES (FEMALE INLET)                                         |                  |                     |                                           |                   |                   |                   |
|-------------------------------------------------------------------|------------------|---------------------|-------------------------------------------|-------------------|-------------------|-------------------|
| CSA (ANSI Z21.22/CSA 4.4) & ASME (BOILER CODE SECTION IV) RATINGS |                  |                     |                                           |                   |                   |                   |
| Type                                                              | Inlet Size (NPS) | CSA Rating (BTU/hr) | ASME Rating at Pressure Setting Indicated |                   |                   |                   |
|                                                                   |                  |                     | 75 psig (BTU/hr)                          | 100 psig (BTU/hr) | 125 psig (BTU/hr) | 150 psig (BTU/hr) |
| FVX-3C                                                            | 3/4"             | 185,000             | 1,034,000                                 | 1,327,000         | 1,619,000         | 1,912,000         |
| FVX-5C                                                            | 3/4"             | 205,000             | 1,034,000                                 | 1,327,000         | 1,619,000         | 1,912,000         |
| FVX-8C                                                            | 3/4"             | 205,000             | 1,034,000                                 | 1,327,000         | 1,619,000         | 1,912,000         |
| FVX-3C                                                            | 1"               | 500,000             | 1,165,000                                 | 1,495,000         | 1,825,000         | 2,155,000         |
| FVX-5C                                                            | 1"               | 500,000             | 1,165,000                                 | 1,495,000         | 1,825,000         | 2,155,000         |
| FVX-5L                                                            | 1"               | 750,000             | 1,960,000                                 | 2,515,000         | 3,070,000         | 3,625,000         |
| FVX-8L                                                            | 1"               | 750,000             | 1,960,000                                 | 2,515,000         | 3,070,000         | 3,625,000         |
| FVX-4                                                             | 1-1/2"           | 1,200,000           | 3,273,000                                 | 4,199,000         | 5,125,000         | 6,050,000         |

## TEMPERATURE & PRESSURE RELIEF VALVES

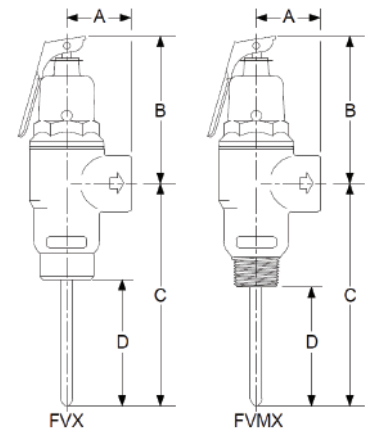


### FVX/FVMX CONT.

| FVMX SERIES (MALE INLET)                                          |                  |                     |                                           |                   |                   |                   |
|-------------------------------------------------------------------|------------------|---------------------|-------------------------------------------|-------------------|-------------------|-------------------|
| CSA (ANSI Z21.22/CSA 4.4) & ASME (BOILER CODE SECTION IV) RATINGS |                  |                     |                                           |                   |                   |                   |
| Type                                                              | Inlet Size (NPS) | CSA Rating (BTU/hr) | ASME Rating at Pressure Setting Indicated |                   |                   |                   |
|                                                                   |                  |                     | 75 psig (BTU/hr)                          | 100 psig (BTU/hr) | 125 psig (BTU/hr) | 150 psig (BTU/hr) |
| FVMX-3C                                                           | 3/4"             | 185,000             | 1,034,000                                 | 1,327,000         | 1,619,000         | 1,912,000         |
| FVMX-5C                                                           | 3/4"             | 205,000             | 1,034,000                                 | 1,327,000         | 1,619,000         | 1,912,000         |
| FVMX-8C                                                           | 3/4"             | 205,000             | 1,034,000                                 | 1,327,000         | 1,619,000         | 1,912,000         |
| FVMX-1LS                                                          | 3/4"             | 185,000             | 1,034,000                                 | 1,327,000         | 1,619,000         | 1,912,000         |
| FVMX-5LS                                                          | 3/4"             | 205,000             | 1,034,000                                 | 1,327,000         | 1,619,000         | 1,912,000         |
| FVMX-3C                                                           | 1"               | 500,000             | 1,165,000                                 | 1,495,000         | 1,825,000         | 2,155,000         |
| FVMX-5C                                                           | 1"               | 500,000             | 1,165,000                                 | 1,495,000         | 1,825,000         | 2,155,000         |
| FVMX-3LS                                                          | 1"               | 500,000             | 1,165,000                                 | 1,495,000         | 1,825,000         | 2,155,000         |
| FVMX-4LS                                                          | 1"               | 500,000             | 1,165,000                                 | 1,495,000         | 1,825,000         | 2,155,000         |
| FVMX-6LS                                                          | 1"               | 500,000             | 1,165,000                                 | 1,495,000         | 1,825,000         | 2,155,000         |
| FVMX-4L                                                           | 1-1/4"           | 750,000             | 1,960,000                                 | 2,515,000         | 3,070,000         | 3,625,000         |
| FVMX-3                                                            | 2"               | 1,200,000           | 3,273,000                                 | 4,199,000         | 5,125,000         | 6,050,000         |

| FVX SERIES (FEMALE INLET) |                         |                          |                     |         |        |        |
|---------------------------|-------------------------|--------------------------|---------------------|---------|--------|--------|
| Type                      | Inlet Size (NPS) Female | Outlet Size (NPS) Female | Dimensions (inches) |         |        |        |
|                           |                         |                          | A                   | B       | C      | D      |
| FVX-3C                    | 3/4                     | 3/4                      | 1-1/2               | 3-15/32 | 5-7/32 | 3      |
| FVX-5C                    | 3/4                     | 3/4                      | 1-1/2               | 3-15/32 | 6-7/8  | 4-5/8  |
| FVX-8C                    | 3/4                     | 3/4                      | 1-1/2               | 3-15/32 | 10-1/8 | 7-7/8  |
| FVX-3C                    | 1                       | 1                        | 1-9/16              | 3-15/32 | 5-7/32 | 3-3/32 |
| FVX-5C                    | 1                       | 1                        | 1-9/16              | 3-15/32 | 6-7/8  | 4-3/4  |
| FVX-5L                    | 1                       | 1                        | 1-3/4               | 4-3/8   | 5-7/8  | 4-3/4  |
| FVX-8L                    | 1                       | 1                        | 1-3/4               | 4-3/8   | 9-1/4  | 8-5/32 |
| FVX-4                     | 1-1/2                   | 1-1/2                    | 2-1/2               | 5-7/8   | 5-7/8  | 4-3/16 |

| FVMX SERIES (MALE INLET) |                       |                          |                     |         |         |         |
|--------------------------|-----------------------|--------------------------|---------------------|---------|---------|---------|
| Type                     | Inlet Size (NPS) Male | Outlet Size (NPS) Female | Dimensions (inches) |         |         |         |
|                          |                       |                          | A                   | B       | C       | D       |
| FVMX-3C                  | 3/4                   | 3/4                      | 1-1/2               | 3-15/32 | 5-7/32  | 2-25/32 |
| FVMX-5C                  | 3/4                   | 3/4                      | 1-1/2               | 3-15/32 | 6-7/8   | 4-7/16  |
| FVMX-8C                  | 3/4                   | 3/4                      | 1-1/2               | 3-15/32 | 10-1/8  | 7-11/16 |
| FVMX-1LS                 | 3/4                   | 3/4                      | 1-17/32             | 3-15/32 | 5-7/32  | 1-15/32 |
| FVMX-5LS                 | 3/4                   | 3/4                      | 1-17/32             | 3-15/32 | 9-3/32  | 5-3/8   |
| FVMX-3C                  | 1                     | 1                        | 1-9/16              | 3-15/32 | 5-7/32  | 3-1/8   |
| FVMX-5C                  | 1                     | 1                        | 1-9/16              | 3-15/32 | 6-7/8   | 4-25/32 |
| FVMX-3LS                 | 1                     | 1                        | 1-19/32             | 3-15/32 | 6-7/8   | 3       |
| FVMX-4LS                 | 1                     | 1                        | 1-19/32             | 3-15/32 | 6-7/8   | 4-1/16  |
| FVMX-6LS                 | 1                     | 1                        | 1-19/32             | 3-15/32 | 10-1/8  | 6-1/4   |
| FVMX-4L                  | 1-1/4                 | 1                        | 1-3/4               | 4-11/32 | 5-7/8   | 3-29/32 |
| FVMX-3                   | 2                     | 1-1/2                    | 2-15/32             | 5-27/32 | 5-27/32 | 3-5/16  |





# TEMPERATURE & PRESSURE RELIEF VALVES

## FVX/FVMX CONT.



| PRODUCT DESCRIPTION                                                               | PART NUMBER |
|-----------------------------------------------------------------------------------|-------------|
| <b>FVX &amp; FVMX COMMERCIAL TEMPERATURE AND PRESSURE RELIEF VALVES</b>           |             |
| 3/4" FVX-3C Female Inlet                                                          | 16930-0150  |
| 3/4" FVX-5C Female Inlet                                                          | 16931-0150  |
| 3/4" FVX-8C Female Inlet                                                          | 16932-0150  |
| 3/4" FVMX-3C Male Inlet                                                           | 16933-0150  |
| 3/4" FVMX-5C Male Inlet                                                           | 16934-0150  |
| 3/4" FVMX-5LS Male Inlet                                                          | 20682-0150  |
| 3/4" FVMX-8C Male Inlet                                                           | 16935-0150  |
| 3/4" FVMX-1LS Male Inlet, Long Shank                                              | 20113-0150  |
| 1" FVX-3C Female Inlet                                                            | 16936-0150  |
| 1" FVX-5C Female Inlet                                                            | 16937-0150  |
| 1" FVX-5L Female Inlet                                                            | 15638-0150  |
| 1" FVX-8L Female Inlet                                                            | 17354-0150  |
| 1" FVMX-3C Male Inlet                                                             | 16938-0150  |
| 1" FVMX-5C Male Inlet                                                             | 16939-0150  |
| 1" FVMX-3LS Male Inlet, Long Shank                                                | 19784-0150  |
| 1" FVMX-4LS Male Inlet, Long Shank                                                | 22894-0150  |
| 1-1/4" X 1" FVMX-4L Male Inlet, Long Shank                                        | 15672-0150  |
| 1-1/2" FVX-4 Female Inlet, Long Shank                                             | 16221-0150  |
| 2" X 1-1/2" FVMX-3 Male Inlet                                                     | 16225-0150  |
| <b>LEAD FREE FVX &amp; FVMX COMMERCIAL TEMPERATURE AND PRESSURE RELIEF VALVES</b> |             |
| 3/4" FVX-3C Female Inlet                                                          | 23258-0150  |
| 3/4" FVX-5C Female Inlet                                                          | 23256-0150  |
| 3/4" FVX-8C Female Inlet                                                          | 23355-0150  |
| 3/4" FVMX-3C Male Inlet                                                           | 23274-0150  |
| 3/4" FVMX-5C Male Inlet                                                           | 23255-0150  |
| 3/4" FVMX-8C Male Inlet                                                           | 23275-0150  |
| 3/4" FVMX-1LS Male Inlet, Long Shank                                              | 23260-0150  |
| 1" FVX-3C Female Inlet                                                            | 23259-0150  |
| 1" FVX-5C Female Inlet                                                            | 23931-0150  |
| 1" FVX-5L Female Inlet                                                            | 23257-0150  |
| 1" FVX-8L Female Inlet                                                            | 23273-0150  |
| 1" FVMX-3C Male Inlet                                                             | 23253-0150  |
| 1" FVMX-5C Male Inlet                                                             | 23276-0150  |
| 1-1/4" X 1" FVMX-4L Male Inlet, Long Shank                                        | 23934-0150  |
| 1-1/2" FVX-4 Female Inlet, Long Shank                                             | 23935-0150  |
| 2" X 1-1/2" FVMX-3 Male Inlet                                                     | 23936-0150  |
| 2" X 1-1/2" FVMX-3 Male Inlet                                                     | 23936-0150  |

## TEMPERATURE & PRESSURE RELIEF VALVES



### FWL

#### COMMERCIAL, RESIDENTIAL

The FWL-2 is a pressure only relief valve designed specifically for the protection of hot water supply systems where over-pressure conditions are likely to occur as a result of thermal expansion.

Completely automatic, the FWL-2 reseats after pressure relief. The valve may be installed directly on the tank or in a tee and is appropriate for either side (hot or cold) of the water heater.

The FWL-2 is fitted with a bronze body, brass and stainless steel internal parts, a silicone seat disc and a stainless steel pressure spring. The FWL-2 is compact and economical. The factory relief settings for 1/2" and 3/4" sizes are 75, 125 or 150 psi.

#### FEATURES AND BENEFITS:

- Specifically for the protection of hot water supply systems
- Offers protection from over-pressure conditions that are likely to occur as a result of thermal expansion
- Compact and economical
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

Available Set pressures     150 psi (75 and 125 psi available)  
Service                             Water

#### APPLICATIONS:

Commercial and domestic hot water heating applications.

#### AVAILABLE CONNECTIONS:

Threaded (NPT)     Male inlet and female outlet

#### APPROVALS AND LISTINGS:

CSA Listed to ANSI Z21.22/CSA 4.4; NB listed to ASME Boiler Code Section IV (FWOL are not Listed; 1/2" sizes are CSA Listed only).

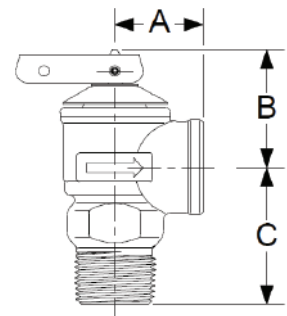


| CSA (ANSI Z21.22/CSA 4.4) & ASME (BOILER CODE SECTION IV) RATINGS |            |                                           |                  |                   |                   |
|-------------------------------------------------------------------|------------|-------------------------------------------|------------------|-------------------|-------------------|
| Type                                                              | Size (NPS) | ASME Rating at Pressure Setting Indicated |                  |                   |                   |
|                                                                   |            | CSA Rating (BTU/hr)                       | 75 psig (BTU/hr) | 125 psig (BTU/hr) | 150 psig (BTU/hr) |
| FWL-2                                                             | 1/2"       | 15,000 (1)                                | N/R (1)          | N/R               | N/R               |
| FWL-2                                                             | 3/4"       | 200,000 (1)                               | N/R (1)          | 500,000           | 500,000           |

(1) The 1/2" and 3/4" FWL-2 at 75 psig are not CSA or ASME rated.

(2) N/R indicates Type is available but Not ASME Rated at the indicated pressure set.

| Type  | Size (NPS) | DIMENSIONS (inches) |        |         |
|-------|------------|---------------------|--------|---------|
|       |            | A                   | B      | C       |
| FWL-2 | 1/2        | 1-3/32              | 1-9/16 | 1-25/32 |
| FWL-2 | 3/4        | 1-5/32              | 1-9/16 | 1-25/32 |



| PRODUCT DESCRIPTION                                               | PART NUMBER |
|-------------------------------------------------------------------|-------------|
| <b>FWL-2 PRESSURE RELIEF VALVES</b>                               |             |
| 1/2" FWL-2 Pressure only                                          | 14721-0150  |
| 3/4" FWL-2 Pressure only, AGA & ASME                              | 14737-0150  |
| <b>LEAD FREE FWL-2 PRESSURE RELIEF VALVES</b>                     |             |
| 3/4" FWL-2 Pressure only, AGA & ASME Lead Free                    | 23343-0150  |
| <b>FWOL PRESSURE ONLY RELIEF VALVES WITHOUT LIFT LEVER</b>        |             |
| 3/4" Pressure only, Male Inlet / Female Outlet without Lift Lever | 22834-0125  |
| 3/4" Pressure only, Male Inlet / Female Outlet without Lift Lever | 22835-0100  |
| 3/4" Pressure only, Male Inlet / Female Outlet without Lift Lever | 22836-0075  |
| 1/2" Pressure only, Male Inlet / Female Outlet without Lift Lever | 22862-0125  |
| 1/2" Pressure only, Male Inlet / Female Outlet without Lift Lever | 22863-0100  |
| 1/2" Pressure only, Male Inlet / Female Outlet without Lift Lever | 22864-0075  |



# TEMPERATURE & PRESSURE RELIEF VALVES

## F-30

### COMMERCIAL

The F-30 is a compact and economical ASME Safety Relief Valve for use on hot water space heating boilers, water supply heaters, and storage tanks. It features an all brass body, brass internal parts, a silicone seat disc and a stainless steel pressure spring.

The F-30 Relief Valve is designed for use on hot water service only and is not to be used on steam.

The F-30 is available in 3/4" size only. The standard factory pressure relief setting is 30 psi.

#### FEATURES AND BENEFITS:

- Compact and economical
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

Set pressure 30 psi  
Service Water

#### APPLICATIONS:

Commercial hot water space heating boilers, water supply heaters, and storage tanks.

#### AVAILABLE CONNECTIONS:

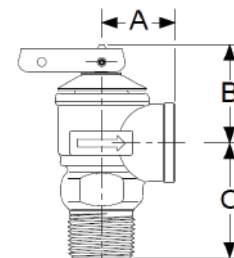
Threaded 3/4" male or female inlet and female outlet

#### APPROVALS AND LISTINGS:

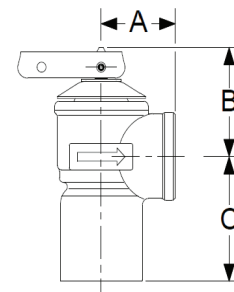
NB Listed to ASME Boiler Code Section IV with a relief capacity of 510,000 BTU/hr.



| Type           | Size (NPS) | DIMENSIONS (inches) |        |         |
|----------------|------------|---------------------|--------|---------|
|                |            | A                   | B      | C       |
| F-30           | 3/4        | 1-5/32              | 1-9/16 | 1-25/32 |
| F-30 FIP X FIP | 3/4        | 1-5/32              | 1-9/16 | 1-25/32 |



| PRODUCT DESCRIPTION                               | PART NUMBER |
|---------------------------------------------------|-------------|
| <b>F-30 ASME PRESSURE RELIEF VALVES</b>           |             |
| 3/4" F-30 set at 30 psi                           | 20166-0030  |
| 3/4" F-30 FIP X FIP set at 30 psi                 | 22887-0030  |
| <b>LEAD FREE F-30 ASME PRESSURE RELIEF VALVES</b> |             |
| 3/4" F-30 set at 30 psi                           | 23344-0030  |



## TEMPERATURE & PRESSURE RELIEF VALVES



### F-82

#### COMMERCIAL

The F-82 is a pressure-only ASME relief valve designed for use on hot water space heating boilers, water supply heaters and storage tanks.

The F-82 Safety Relief Valves are designed for use on hot water service only and are not to be used on steam.

The F-82 has a female inlet and outlet. The F-82 ASME Safety Relief Valve has a factory pressure relief setting from 30 to 150 psi. These high capacity pressure-only relief valves feature bronze bodies, silicone seat discs and stainless steel pressure springs.

#### FEATURES AND BENEFITS:

- Compact and economical
- The valves reseal automatically after pressure relief
- Ideal for most domestic water heater applications
- Rated for emergency steam discharge by the National Board of Boiler and Pressure Vessel Inspectors
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

Available Set pressures 30–150 psi  
Service Water

#### APPLICATIONS:

Commercial hot water space heating boilers, water supply heaters, and storage tanks.

#### AVAILABLE CONNECTIONS:

Threaded (NPT) Female inlet and female outlet\*

\*Male inlet also available on 3/4" size

#### APPROVALS AND LISTINGS:

NB Listed to ASME Boiler Code Section IV.

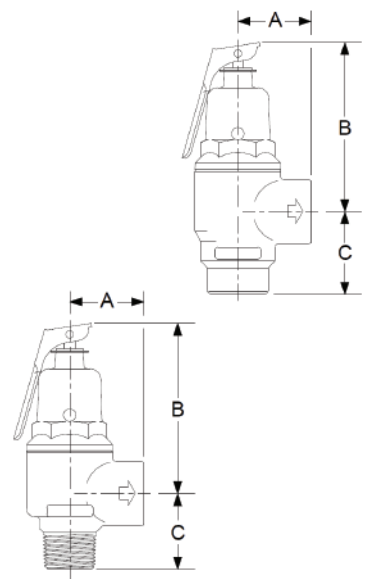


#### ASME RELIEF CAPACITIES AT STANDARD SETTINGS - BTU/HR STEAM RELIEF

| RELIEF SETTING | F-82<br>3/4" x 3/4" | F-82<br>1" x 1" | F-82<br>1-1/4" x 1-1/4" | F-82<br>1-1/2" x 1-1/2" | F-82<br>2" x 2" |
|----------------|---------------------|-----------------|-------------------------|-------------------------|-----------------|
| 30 psi         | 717,000             | 1,025,000       | 1,704,000               | 2,085,000               | 3,902,000       |
| 50 psi         | 1,048,000           | 1,498,000       | 2,490,000               | 3,047,000               | 5,701,000       |
| 75 psi         | 1,462,000           | 2,090,000       | 3,472,000               | 4,249,000               | 7,951,000       |
| 100 psi        | 1,875,000           | 2,680,000       | 4,454,000               | 5,451,000               | 10,200,000      |
| 125 psi        | 2,289,000           | 3,271,000       | 5,437,000               | 6,653,000               | 12,450,000      |
| 150 psi        | 2,703,000           | 3,862,000       | 6,419,000               | 7,855,000               | 14,699,000      |

| Inlet Size (NPS)<br>Female | Outlet Size<br>(NPS) Female | DIMENSIONS (inches) |         |         |
|----------------------------|-----------------------------|---------------------|---------|---------|
|                            |                             | A                   | B       | C       |
| 3/4                        | 3/4                         | 1-1/2               | 3-1/2   | 1-11/16 |
| 1                          | 1                           | 1-3/4               | 4-11/32 | 1-7/64  |
| 1-1/4                      | 1-1/4                       | 2-1/16              | 5-9/16  | 1-1/2   |
| 1-1/2                      | 1-1/2                       | 2-15/32             | 5-7/8   | 1-21/32 |
| 2                          | 2                           | 3                   | 7-1/2   | 2-5/32  |

| Inlet Size (NPS)<br>Male | Outlet Size<br>(NPS) Female | DIMENSIONS (inches) |       |         |
|--------------------------|-----------------------------|---------------------|-------|---------|
|                          |                             | A                   | B     | C       |
| 3/4                      | 3/4                         | 1-1/2               | 3-1/2 | 1-17/32 |





## TEMPERATURE & PRESSURE RELIEF VALVES



| PRODUCT DESCRIPTION                               | PART NUMBER |
|---------------------------------------------------|-------------|
| <b>F-82 ASME PRESSURE RELIEF VALVES</b>           |             |
| 3/4" F-82 Bronze body with lever set at 30 psi    | 13570-0030  |
| 3/4" F-82 Bronze body with lever set at 50 psi    | 13570-0050  |
| 3/4" F-82 Bronze body with lever set at 75 psi    | 13570-0075  |
| 3/4" F-82 Bronze body with lever set at 100 psi   | 13570-0100  |
| 3/4" F-82 Bronze body with lever set at 125 psi   | 13570-0125  |
| 3/4" F-82 Bronze body with lever set at 150 psi   | 13570-0150  |
| 1" F-82 Bronze body with lever set at 30 psi      | 15673-0030  |
| 1" F-82 Bronze body with lever set at 50 psi      | 15673-0050  |
| 1" F-82 Bronze body with lever set at 75 psi      | 15673-0075  |
| 1" F-82 Bronze body with lever set at 100 psi     | 15673-0100  |
| 1" F-82 Bronze body with lever set at 125 psi     | 15673-0125  |
| 1" F-82 Bronze body with lever set at 150 psi     | 15673-0150  |
| 1-1/4" F-82 Bronze body with lever set at 50 psi  | 16174-0050  |
| 1-1/4" F-82 Bronze body with lever set at 100 psi | 16174-0100  |
| 1-1/4" F-82 Bronze body with lever set at 150 psi | 16174-0150  |
| 1-1/2" F-82 Bronze body with lever set at 50 psi  | 16189-0050  |
| 1-1/2" F-82 Bronze body with lever set at 100 psi | 16189-0100  |
| 1-1/2" F-82 Bronze body with lever set at 150 psi | 16189-0150  |
| 2" F-82 Bronze body with lever set at 50 psi      | 16204-0050  |
| 2" F-82 Bronze body with lever set at 100 psi     | 16204-0100  |
| 2" F-82 Bronze body with lever set at 150 psi     | 16204-0150  |
| <b>LEAD FREE F-82 ASME PRESSURE RELIEF VALVES</b> |             |
| 3/4" F-82 Bronze body with lever set at 30 psi    | 23341-0030  |
| 3/4" F-82 Bronze body with lever set at 50 psi    | 23341-0050  |
| 3/4" F-82 Bronze body with lever set at 75 psi    | 23341-0075  |
| 3/4" F-82 Bronze body with lever set at 100 psi   | 23341-0100  |
| 3/4" F-82 Bronze body with lever set at 125 psi   | 23341-0125  |
| 3/4" F-82 Bronze body with lever set at 150 psi   | 23341-0150  |
| 1" F-82 Bronze body with lever set at 30 psi      | 23356-0030  |
| 1" F-82 Bronze body with lever set at 50 psi      | 23356-0050  |
| 1" F-82 Bronze body with lever set at 75 psi      | 23356-0075  |
| 1" F-82 Bronze body with lever set at 100 psi     | 23356-0100  |
| 1" F-82 Bronze body with lever set at 125 psi     | 23356-0125  |
| 1" F-82 Bronze body with lever set at 150 psi     | 23356-0150  |
| 1-1/4" F-82 Bronze body with lever set at 50 psi  | 23937-0050  |
| 1-1/4" F-82 Bronze body with lever set at 100 psi | 23937-0100  |
| 1-1/4" F-82 Bronze body with lever set at 150 psi | 23937-0150  |
| 1-1/2" F-82 Bronze body with lever set at 50 psi  | 23938-0050  |
| 1-1/2" F-82 Bronze body with lever set at 100 psi | 23938-0100  |
| 1-1/2" F-82 Bronze body with lever set at 150 psi | 23938-0150  |
| 2" F-82 Bronze body with lever set at 50 psi      | 23939-0050  |
| 2" F-82 Bronze body with lever set at 100 psi     | 23939-0100  |
| 2" F-82 Bronze body with lever set at 150 psi     | 23939-0150  |

## TEMPERATURE & PRESSURE RELIEF VALVES



### F-95

#### COMMERCIAL

The F-95 Expanded Outlet Pressure Relief Valve offers a complete package of expanded boiler ASME safety relief valves in sizes ranging from 3/4" x 1" through 2" x 2-1/2". The F-95 features an iron body construction, brass seat, silicone seat disc and EP diaphragms for high temperature applications. It also incorporates a pop-type action. The F-95 Valves are available with relief settings from 30 to 75 psi.

#### FEATURES AND BENEFITS:

- Offers a complete package of expanded boiler safety relief valves in a range of sizes
- Provides pressure protection for nearly all commercial/industrial OEM boilers and hot water heating system applications
- Higher Capacity: Handles more volume with just one relief valve
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

Available Set pressures 30-75 psi  
Service Water

#### APPLICATIONS:

Provides pressure protection for nearly all types of commercial and industrial OEM boilers and water heating system applications.

#### AVAILABLE CONNECTIONS:

Threaded (NPT) Female inlet and female outlet

#### APPROVALS AND LISTINGS:

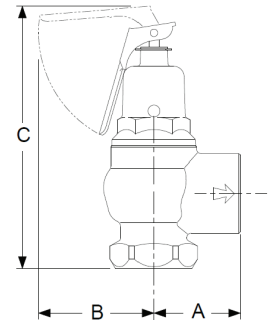
NB Listed to ASME Boiler Code Section IV.



| ASME RATED HOT WATER SAFETY RELIEF VALVE (BTU/HR) |           |             |                 |             |             |
|---------------------------------------------------|-----------|-------------|-----------------|-------------|-------------|
| Set Pressure (psi)                                | 3/4" x 1" | 1" x 1-1/4" | 1-1/4" x 1-1/2" | 1-1/2" x 2" | 2" x 2-1/2" |
| 30                                                | 952,000   | 1,337,000   | 2,090,000       | 3,010,000   | 5,351,000   |
| 45                                                | 1,281,000 | 1,800,000   | 2,813,000       | 4,051,000   | 7,202,000   |
| 60                                                | 1,611,000 | 2,262,000   | 3,536,000       | 5,092,000   | 9,053,000   |
| 75                                                | 1,940,000 | 2,725,000   | 4,259,000       | 6,133,000   | 10,904,000  |

| Inlet Size (NPS)<br>Female | Outlet Size<br>(NPS) Female | DIMENSIONS (inches) |         |          |
|----------------------------|-----------------------------|---------------------|---------|----------|
|                            |                             | A                   | B       | C        |
| 3/4                        | 1                           | 1-13/16             | 2-13/32 | 5-1/2    |
| 1                          | 1-1/4                       | 2-1/16              | 2-3/8   | 6-13/32  |
| 1-1/4                      | 1-1/2                       | 2-3/8               | 3-3/32  | 9-9/16   |
| 1-1/2                      | 2                           | 2-5/8               | 3-7/8   | 10-3/32  |
| 2                          | 2-1/2                       | 3-7/16              | 3-1/2   | 12-13/16 |

| PRODUCT DESCRIPTION                                     | PART NUMBER |
|---------------------------------------------------------|-------------|
| <b>F-95 ASME PRESSURE RELIEF VALVES</b>                 |             |
| 3/4" X 1" F-95 Iron body with lever set at 30 psi       | 19497-0030  |
| 3/4" X 1" F-95 Iron body with lever set at 50 psi       | 19497-0050  |
| 3/4" X 1" F-95 Iron body with lever set at 75 psi       | 19497-0075  |
| 1" X 1-1/4" F-95 Iron body with lever set at 30 psi     | 19499-0030  |
| 1" X 1-1/4" F-95 Iron body with lever set at 50 psi     | 19499-0050  |
| 1" X 1-1/4" F-95 Iron body with lever set at 75 psi     | 19499-0075  |
| 1-1/4" X 1-1/2" F-95 Iron body with lever set at 30 psi | 19501-0030  |
| 1-1/4" X 1-1/2" F-95 Iron body with lever set at 50 psi | 19501-0050  |
| 1-1/4" X 1-1/2" F-95 Iron body with lever set at 75 psi | 19501-0075  |
| 1-1/2" X 2" F-95 Iron body with lever set at 30 psi     | 19503-0030  |
| 1-1/2" X 2" F-95 Iron body with lever set at 50 psi     | 19503-0050  |
| 1-1/2" X 2" F-95 Iron body with lever set at 75 psi     | 19503-0075  |
| 2" X 2-1/2" F-95 Iron body with lever set at 30 psi     | 19505-0030  |
| 2" X 2-1/2" F-95 Iron body with lever set at 50 psi     | 19505-0050  |
| 2" X 2-1/2" F-95 Iron body with lever set at 75 psi     | 19505-0075  |





# TEMPERATURE & PRESSURE RELIEF VALVES

## F, FW & FWC

### COMMERCIAL, INDUSTRIAL

The FW and FWC Valves are small, low-cost relief valves suitable for static over-pressure protection. Type FWC incorporates a calibrated adjusting screw for occasional changes in pressure setting without the use of a pressure gauge. Bronze bodies with male inlet and female outlet, silicone seats and stainless steel spring.

#### FEATURES AND BENEFITS:

- Offers protection against problematic and over-pressure conditions:
  - thermal expansion protection
  - static pressure and over-pressure relief
  - very low capacity pump relief
  - other uses of similar nature where tight shut-off is required
- Designed to meet the needs of a wide variety of water systems in commercial and industrial applications
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

Set pressure range      25-175 psi (Type FWC) factory set at 125 psi  
 Maximum temperature    210°F (98.9°C)  
 Service                      Water

#### APPLICATIONS:

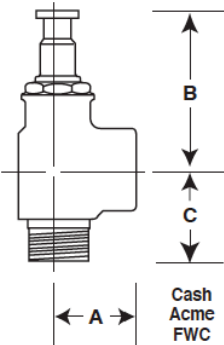
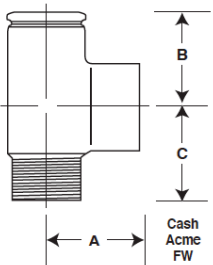
For commercial and industrial applications including thermal expansion protection, static pressure and over-pressure relief, low capacity pump relief and other uses of similar nature where tight shut-off is required. Valves are non-code.

#### AVAILABLE CONNECTIONS:

Threaded (NPT)      Male inlet and female outlet



| DIMENSIONS (inches) | A      | B       | C     |
|---------------------|--------|---------|-------|
| FW - 1/2            | 1-3/16 | 1-11/32 | 1-1/2 |
| FW - 3/4            | 1-3/16 | 1-11/32 | 1-1/2 |
| FWC - 1/2           | 1-3/16 | 2-5/8   | 1-1/2 |
| FWC - 3/4           | 1-1/4  | 2-5/8   | 1-1/2 |



| PRODUCT DESCRIPTION                                           | PART NUMBER  |
|---------------------------------------------------------------|--------------|
| <b>F &amp; FW SERIES RELIEF VALVES</b>                        |              |
| 1/2" F Pressure only, Male Inlet / Female Outlet              | 07420-0150   |
| 1/2" X 3/8" FP Pressure only, Male Inlet / 3/8" Female Outlet | 07410-0150   |
| 1/2" FW Pressure only                                         | 09553-0125   |
| 3/4" FW Pressure only                                         | 09554-0125   |
| <b>LEAD FREE FWC ADJUSTABLE PRESSURE RELIEF VALVES</b>        |              |
| 1/2" Pressure only                                            | 09563-0125LF |
| 3/4" Pressure only                                            | 09564-0125LF |

## TEMPERATURE & PRESSURE RELIEF VALVES



### VR-801

#### COMMERCIAL

The VR-801 Vacuum Relief Valve is designed to protect hot water supply systems and pressure vessels against negative pressure. It is especially well suited for many domestic and commercial systems.

It works by preventing internal vacuum conditions that could result in burned out heaters and/or collapsed storage tanks. Installed on the cold water supply line, the Cash Acme VR-801 closes tightly under pressure and opens at a 1" mercury vacuum. Atmosphere admitted to the system breaks the vacuum, preventing collapse of the storage tank.

#### FEATURES AND BENEFITS:

- Prevents internal vacuum conditions
- Guards against siphonage, burnt-out heaters and collapsing of storage tanks and negative pressure
- Opens quickly in emergency situations on a one inch mercury vacuum
- Every valve is tested for performance prior to shipping

#### PERFORMANCE:

|                        |                   |
|------------------------|-------------------|
| Relief pressure (open) | 1" Hg vacuum      |
| Capacity               | 13 SCFM (@ 2" Hg) |
| Maximum temperature    | 210°F (98.9°C)    |
| Maximum inlet pressure | 200 psi           |
| Service                | Water             |

#### APPLICATIONS:

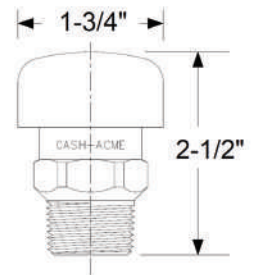
For protection of commercial hot water supply systems and pressure vessels against negative pressure.

#### AVAILABLE CONNECTIONS:

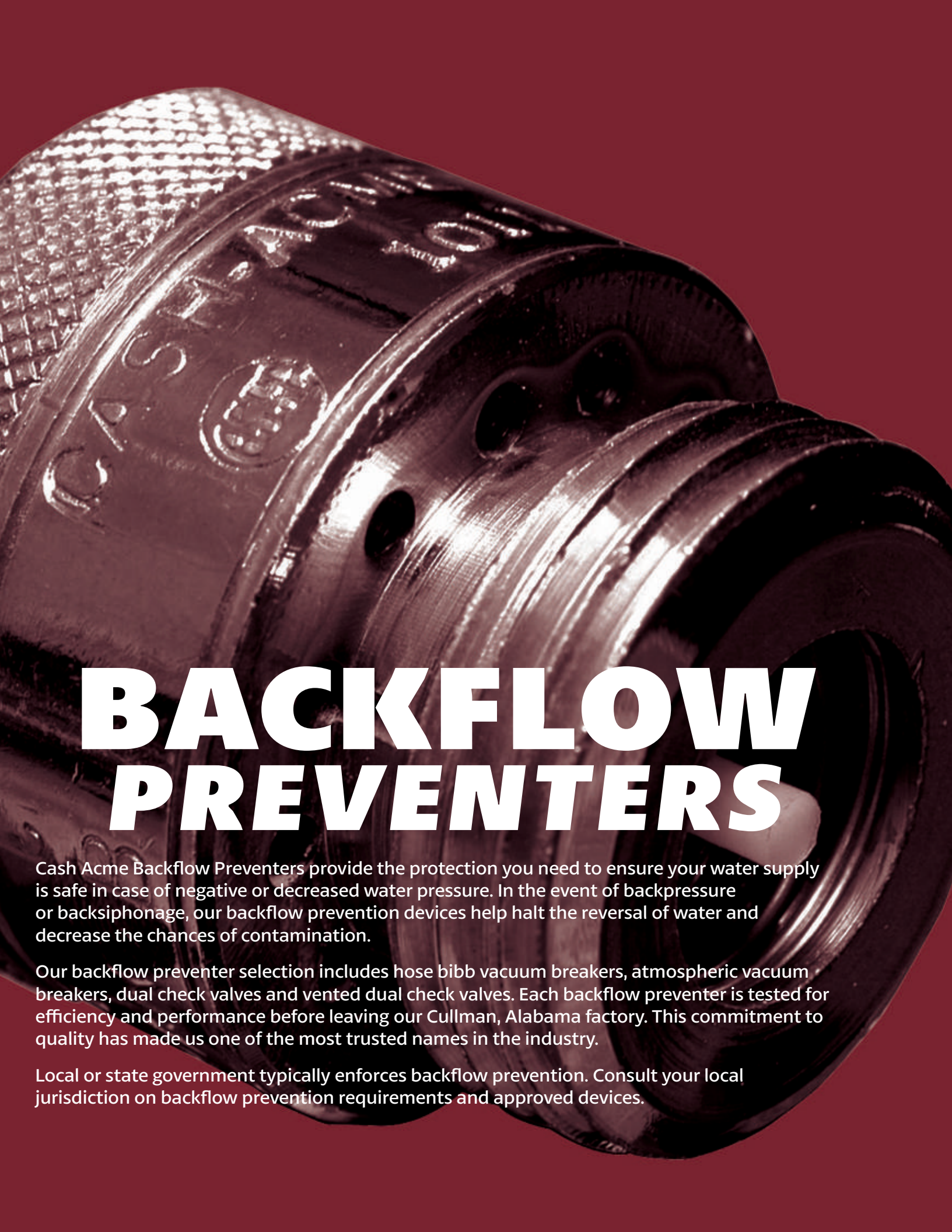
Threaded (NPT) 1/2" and 3/4"

#### APPROVALS AND LISTINGS:

ANSI Z21.22/CSA 4.4. Listed by CSA.



| PRODUCT DESCRIPTION                          | PART NUMBER  |
|----------------------------------------------|--------------|
| <b>LEAD FREE VR-801 VACUUM RELIEF VALVES</b> |              |
| 1/2" Drilled vent, w/dust cover              | 22397-0000LF |
| 3/4" Drilled vent, w/dust cover              | 22398-0000LF |



# **BACKFLOW PREVENTERS**

Cash Acme Backflow Preventers provide the protection you need to ensure your water supply is safe in case of negative or decreased water pressure. In the event of backpressure or backsiphonage, our backflow prevention devices help halt the reversal of water and decrease the chances of contamination.

Our backflow preventer selection includes hose bibb vacuum breakers, atmospheric vacuum breakers, dual check valves and vented dual check valves. Each backflow preventer is tested for efficiency and performance before leaving our Cullman, Alabama factory. This commitment to quality has made us one of the most trusted names in the industry.

Local or state government typically enforces backflow prevention. Consult your local jurisdiction on backflow prevention requirements and approved devices.



## V-3 VACUUM BREAKER

### COMMERCIAL, RESIDENTIAL

The V-3 Vacuum Breaker prevents dangerous back-siphonage and backflow into a potable water supply. The V-3 features all-brass construction with threaded connections, a neoprene seat disc, rubber washer, and steel set screw. The V-3 is equipped with a protruding tip device for manual draining of a faucet (after hose removal), which prevents freezing. Maximum pressure is 125 psi; maximum temperature is 180°F (82.2°C). The V-3 is also available in a chrome-plated version (V-3C).

Note: These units are not intended for use where water contamination could occur as a result of draining or for permanent continuous pressure installation. For continuous pressure systems, install the BFP Backflow Preventer Valve.

#### FEATURES AND BENEFITS:

- Designed for any place involving moveable hoses attached to threaded faucets
- The V-3 is equipped with a protruding "tip" device for manual draining of a faucet (after hose removal), which prevents freezing
- Polished chrome plating designs are also available

#### PERFORMANCE:

|                     |                |
|---------------------|----------------|
| Maximum temperature | 180°F (82.2°C) |
| Maximum pressure    | 125 psi        |
| Service             | Water          |

#### APPLICATIONS:

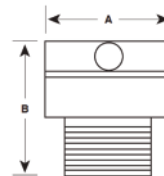
For use around homes, schools, commercial buildings, laboratories, or any place involving removable hoses attached to threaded faucets, indoors or out.

#### AVAILABLE CONNECTIONS:

Threaded (NH) 3/4"

#### APPROVALS AND LISTINGS:

ASSE 1011 and CSA B64.2. Listed by ASSE, CSA and IAPMO.



| DIMENSIONS (inches) | A      | B      |
|---------------------|--------|--------|
| 3/4                 | 1-6/16 | 1-6/16 |

| PRODUCT DESCRIPTION                                         | PART NUMBER  |
|-------------------------------------------------------------|--------------|
| <b>V-3 VACUUM BREAKERS HOSE BIBB TYPE</b>                   |              |
| 3/4" V-3 Vacuum Breaker, Hose Bibb type with Locking Screw  | 17148-0000   |
| 3/4" V-3C, Vacuum Breaker, Hose Bibb Type, Chrome Plated    | 17195-0000   |
| <b>V-3 LEAD FREE VACUUM BREAKERS HOSE BIBB TYPE</b>         |              |
| 3/4" V-3, Vacuum Breaker, Hose Bibb type with Locking Screw | 17148-0000LF |
| 3/4" V-3C, Vacuum Breaker, Hose Bibb type, Chrome Plated    | 17195-0000LF |

Product not available in Canada.



# BACKFLOW PREVENTERS

## VB-222 VACUUM BREAKER

### COMMERCIAL, RESIDENTIAL

The VB-222 vacuum breaker valve is designed to prevent dangerous back-siphonage and backflow into a potable water supply system. It automatically self-drains when all attachments are removed completely from the valve's outlet which protects the valve and faucet from freezing and rupturing in cold weather. The valve is constructed with a brass body and adapter, Buna O-ring and seats, steel set screw, stainless steel springs, and the highest quality molded parts.

Note: These units are not intended for use where water contamination could occur as a result of draining or for permanent continuous pressure installation. For continuous pressure systems, install the BFP Backflow Preventer Valve.

#### FEATURES AND BENEFITS:

- Prevents dangerous back-siphonage
- Automatically drains when attachments are removed from the valve's outlet
- Freeze proof self-draining hose protects the valve and faucet from freezing and rupturing in cold weather

#### PERFORMANCE:

|                     |                |
|---------------------|----------------|
| Maximum temperature | 180°F (82.2°C) |
| Maximum pressure    | 125 psi        |
| Service             | Water          |

#### APPLICATIONS:

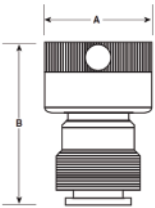
For use around homes, schools, commercial buildings, laboratories or any application involving a removable hose attached to threaded faucets.

#### AVAILABLE CONNECTIONS:

Threaded (NH) 3/4"

#### APPROVALS AND LISTINGS:

ASSE 1011 and CSA B64.2. Listed by ASSE, CSA and IAPMO.



| DIMENSIONS (inches) | A      | B |
|---------------------|--------|---|
| 3/4                 | 1-5/16 | 2 |

| PRODUCT DESCRIPTION                                                          | PART NUMBER  |
|------------------------------------------------------------------------------|--------------|
| <b>VB-222 VACUUM BREAKERS</b>                                                |              |
| 3/4" VB-222, Vacuum Breaker, Self Draining with Locking Screw                | 19600-0000   |
| 3/4" VB-222C, Chrome Plated Vacuum Breaker, Self Draining with Locking Screw | 21896-0000   |
| <b>VB-222 LEAD FREE VACUUM BREAKERS</b>                                      |              |
| 3/4" VB-222, Vacuum Breaker, Self Draining with Locking Screw                | 19600-0000LF |
| 3/4" VB-222C, Chrome Plated Vacuum Breaker, Self Draining with Locking Screw | 21896-0000LF |

Product not available in Canada.



## V-101 ANTI-SIPHON VACUUM BREAKER

### COMMERCIAL, RESIDENTIAL

The V-101 anti-siphon vacuum breaker is constructed with female connections, a bronze body, and a silicone seat. It is designed for a maximum intermittent water pressure of 125 psi, and is suitable for temperatures up to 212°F (100°C). A polished chrome model is also available.

Note: Not for continuous pressure use.

#### FEATURES AND BENEFITS:

- Prevents polluted water from being siphoned into the potable water supply
- Required for open tanks, basins, sprinkler systems and dishwashers
- Equipped with a lighter than water poppet assembly that applies maximum buoyancy, prevents sticking and keeps spillage to an absolute minimum
- Available in lead free and non-potable applications

#### PERFORMANCE:

|                        |                        |
|------------------------|------------------------|
| Maximum temperature    | 212°F (100°C)          |
| Maximum inlet pressure | 125 psi (Intermittent) |
| Service                | Potable water          |

#### APPLICATIONS:

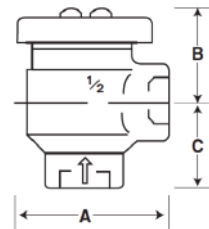
Recommended applications include: open tanks or basins filled by a hose below the water line, in appliances where water enters below the overflow rim, in lawn sprinkling systems, or medical, surgical and therapeutic facilities.

#### AVAILABLE CONNECTIONS:

Threaded (NPT) 1/2", 3/4" and 1"

#### APPROVALS AND LISTINGS:

ASSE 1001. Listed by ASSE and IAPMO.



| DIMENSIONS (inches)  | A       | B       | C       |
|----------------------|---------|---------|---------|
| V-101 & V-101C - 1/2 | 2-1/8   | 1-5/16  | 1-5/16  |
| V-101 & V-101C - 3/4 | 2-9/16  | 1-1/2   | 1-1/2   |
| V-101 & V-101C - 1   | 2-15/16 | 1-11/16 | 1-11/16 |

| PRODUCT DESCRIPTION                                  | PART NUMBER  |
|------------------------------------------------------|--------------|
| <b>V-101 NON-POTABLE ANTI-SIPHON VACUUM BREAKERS</b> |              |
| 1/2" V-101, Anti-Siphon, Brass                       | 17383-0000   |
| 3/4" V-101, Anti-siphon, Brass                       | 17384-0000   |
| <b>V-101 LEAD FREE ANTI-SIPHON VACUUM BREAKERS</b>   |              |
| 1/2" V-101, Anti-Siphon, Brass                       | 17383-0000LF |
| 3/4" V-101, Anti-siphon, Brass                       | 17384-0000LF |
| 1" V-101, Anti-Siphon, Brass                         | 17385-0000LF |
| 1/2" V-101C, Anti-Siphon, Chrome                     | 17389-0000LF |
| 3/4" V-101C, Anti-Siphon, Chrome                     | 17390-0000LF |

Product not available in Canada.



## BACKFLOW PREVENTERS

### BF DUAL CHECK VALVE

#### COMMERCIAL, RESIDENTIAL

The Cash Acme BF series dual check valve prevents polluted water from entering the potable water supply system by preventing the reverse flow of water into supply lines, and is constructed of a cast bronze body and brass union inlet connection. The Cash Acme BF Series is the first ASSE 1024 Dual Check Valve Series to incorporate push-to-connect inlets and outlets.

#### FEATURES AND BENEFITS:

- Prevents polluted water from entering the potable water supply system
- Prevents the reverse flow of water into supply lines
- Straight through design to minimize pressure drop
- May be installed horizontally or vertically
- Available in lead free applications

#### PERFORMANCE:

Maximum temperature 140°F (60°C)  
Maximum pressure 175 psi  
Service Water

#### APPLICATIONS:

Intended for use with continuous or intermittent applications on water supply lines.

#### APPROVALS AND LISTINGS:

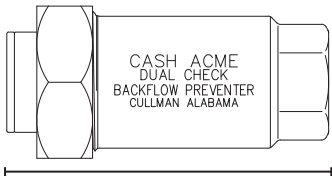
ASSE 1024 and CSA B64.6. Listed by ASSE and CSA.



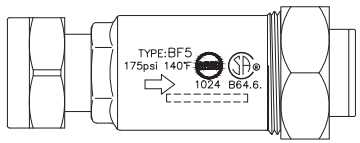
| BF SERIES TYPICAL FLOW LOSS |            |                     |
|-----------------------------|------------|---------------------|
| Size                        | Flow (gpm) | Pressure Loss (psi) |
| All Sizes                   | 3          | 4.3                 |
|                             | 6          | 5.0                 |
|                             | 9          | 5.8                 |
|                             | 12         | 6.7                 |
|                             | 18         | 8.0                 |

| BF-1                |         |
|---------------------|---------|
| DIMENSIONS (inches) | A       |
| 3/4" FNPT           | 3.96 in |
| 3/4" SharkBite      | 5.9 in  |
| 1" FNPT             | 4.34 in |
| 1" SharkBite        | 6.76 in |

| BF-5                         |         |
|------------------------------|---------|
| DIMENSIONS (inches)          | A       |
| 1" Meter x 3/4" FNPT Union   | 4.55 in |
| 1" Meter x 3/4" SharkBite    | 5.41 in |
| 1-1/4" Meter x 1" FNPT Union | 4.82 in |
| 1-1/4" Meter x 1" SharkBite  | 6.17 in |



A



A

| PRODUCT DESCRIPTION                                                   | PART NUMBER |
|-----------------------------------------------------------------------|-------------|
| BF SERIES - LEAD FREE DUAL CHECK BACKFLOW PREVENTER                   |             |
| 3/4" BF1, Dual Check, FNPT Union Inlet & FNPT Outlet                  | BF13434     |
| 3/4" BF1, Dual Check, SharkBite Inlet & Outlet                        | BF13434SB   |
| 1" BF1, Dual Check, FNPT Union Inlet & FNPT Outlet                    | BF10101     |
| 1" BF1, Dual Check, SharkBite Inlet & Outlet                          | BF10101SB   |
| 1" X 3/4" BF5, Dual Check, Meter Swivel Nut Inlet, FNPT Outlet        | BF5M0134    |
| 1" X 3/4" BF5, Dual Check, Meter Swivel Nut Inlet, SharkBite Outlet   | BF5M0134SB  |
| 1-1/4" X 1" BF5, Dual Check, Meter Swivel Nut Inlet, FNPT Outlet      | BF5M1401    |
| 1-1/4" X 1" BF5, Dual Check, Meter Swivel Nut Inlet, SharkBite Outlet | BF5M1401SB  |
| BF SERIES - NON-POTABLE DUAL CHECK BACKFLOW PREVENTER                 |             |
| 3/4" BF1, Dual Check, Threaded Union Inlet                            | 17217-0000  |
| 1" BF1, Dual Check, Threaded Union Inlet                              | 17218-0000  |



## BFP DUAL CHECK VALVE

### RESIDENTIAL, COMMERCIAL

The BFP series dual check valve prevents backflow of contaminated water into potable water supply lines. It is constructed of a brass body with two spring loaded poppet-type valve modules, an internal strainer screen, stainless steel springs and features threaded female union inlet and outlet connections. Suitable for hot [up to 180°F (82.2°C)] or cold water under continuous pressure.

#### FEATURES AND BENEFITS:

- Prevents polluted water from entering the potable water supply system
- Prevents the reverse flow of water into supply lines
- Internal plastic parts and high temperature elastomer seals resist corrosion
- Designed for use at cross-connections
- Perfect for boiler feed lines, dairy processing, chlorinators, livestock drinking fountains and numerous other similar applications
- Lead free for domestic water supply

#### PERFORMANCE:

Maximum temperature 180° F (82.2°C)  
Maximum inlet pressure 170 psi  
Service Water

#### APPLICATIONS:

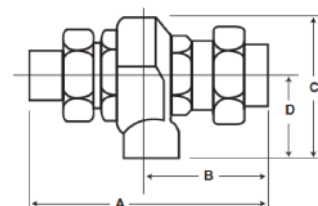
Intended for use with boiler feed lines, dairy processing systems, livestock water sources, chlorinators, trap primers and similar installations.

#### AVAILABLE CONNECTIONS:

Threaded (NPT) 1/2" and 3/4"

#### APPROVALS AND LISTINGS:

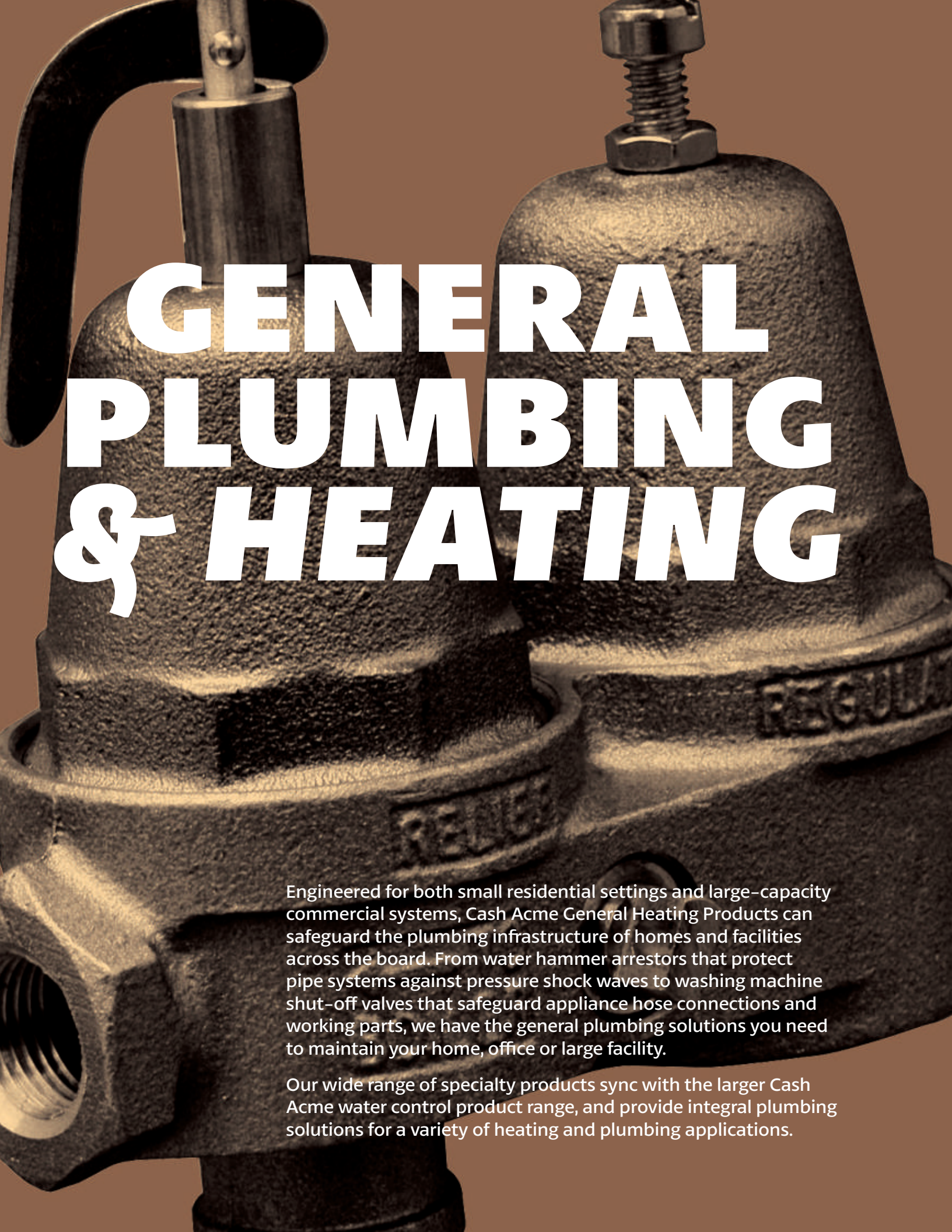
ASSE 1012. Listed by ASSE.



| DIMENSIONS (inches) | A      | B       | C       | D       |
|---------------------|--------|---------|---------|---------|
| 1/2                 | 5-3/32 | 2-7/16  | 1-25/32 | 2-63/64 |
| 3/4                 | 5-5/32 | 2-17/32 | 1-25/32 | 2-63/64 |

| PRODUCT DESCRIPTION                                                                    | PART NUMBER  |
|----------------------------------------------------------------------------------------|--------------|
| <b>BFP SERIES - LEAD FREE CONTINUOUS TYPE BACKFLOW PREVENTER WITH ATMOSPHERIC VENT</b> |              |
| 1/2" BFP, Continuous Type, Female Union Inlet & Outlet                                 | 21574-0000LF |
| 3/4" BFP, Continuous Type, Female Union Inlet & Outlet                                 | 21575-0000LF |
| 1/2" BFP, Continuous Type, Copper Sweat Union Inlet & Outlet                           | 22760-0000LF |
| 3/4" BFP, Continuous Type, Copper Sweat Union Inlet & Outlet Lead Free                 | 22762-0000LF |

Product not available in Canada.



# GENERAL PLUMBING & HEATING

Engineered for both small residential settings and large-capacity commercial systems, Cash Acme General Heating Products can safeguard the plumbing infrastructure of homes and facilities across the board. From water hammer arrestors that protect pipe systems against pressure shock waves to washing machine shut-off valves that safeguard appliance hose connections and working parts, we have the general plumbing solutions you need to maintain your home, office or large facility.

Our wide range of specialty products sync with the larger Cash Acme water control product range, and provide integral plumbing solutions for a variety of heating and plumbing applications.



# WASHING MACHINE SHUT-OFF VALVE

**COMMERCIAL, RESIDENTIAL**

Single-lever control of both hot and cold water to protect a washing machine's hose and inner working parts. E-Z on/off ball-type design can also be used to throttle water flow and ease the water hammer shock caused by solenoid valves. Bronze construction. Equipped with fluoropolymer seats against brass thru-hole balls that provide quiet rotating action. The WM-1 is supplied with male adapters. The WM-2 is furnished with sweat copper elbow adapters (2-3/8" on centers), which may be installed either up or down.

**FEATURES AND BENEFITS:**

- Convenient single lever control makes it easy to use and encourages shut-off of the water supply
- Economical and easy to install

**PERFORMANCE:**

Maximum temperature 180°F (82.2°C)  
Maximum pressure 80 psi  
Service Water

**APPLICATIONS:**

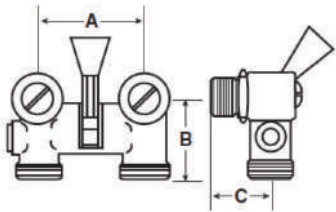
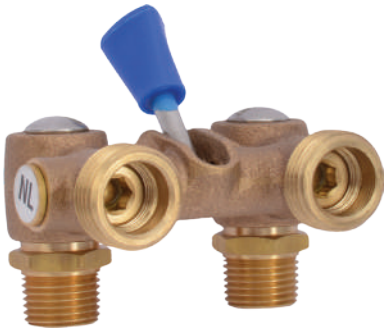
Designed for control of both hot and cold water supply to a washing machine.

**AVAILABLE CONNECTIONS:**

Threaded (NPT) 1/2" NPT and 3/4" Hose

**APPROVALS AND LISTINGS:**

ASSE 1012 and CSA B.64. Listed by ASSE and CSA.



| DIMENSIONS (inches) | A     | B     | C     |
|---------------------|-------|-------|-------|
| WM-1                | 2-3/8 | 1-7/8 | 1-3/8 |
| WM-2                |       |       | 1-1/8 |

| PRODUCT DESCRIPTION                   | PART NUMBER |
|---------------------------------------|-------------|
| WASHING MACHINE SHUT-OFF VALVES       |             |
| 1/2" WM-1 Male Threaded (Non-Potable) | 16962-0000  |
| 1/2" WM-2 Copper Sweat (Non-Potable)  | 17087-0000  |



# GENERAL PLUMBING & HEATING

## A-41 AND AB-40

### COMMERCIAL

The A-41 series pressure reducing boiler feed valve provides increased capacity for larger boilers. It has threaded female connections and an iron body with a polymer seat. The AB-40 series pressure reducing boiler feed valve features a brass body and a combo connection which allows either a threaded or sweat copper connection with the same union tail piece. The AB-40 also includes a check valve and provides an inbuilt bypass for rapid filling, high pressure testing and system purging. Both the AB-40 and A-41 have a heat resistant diaphragm and seat disc, and an inbuilt strainer screen. The reduced pressure setting is 14 psi. The maximum inlet working pressure is 200 psi.

Note: For backflow prevention of boiler water into the potable water supply line, install a BFP dual check valve.

### FEATURES AND BENEFITS:

- Economical and easy to install
- Every valve is tested for performance prior to shipping
- Tri-purpose inbuilt by-pass for rapid filling of the boiler
- "Combo-Connection" union inlet provides convenience to the installer by permitting threaded or sweat copper connection with the same union tailpiece

### A-41 PERFORMANCE:

Outlet Pressure Range 10-20 psi (factory set 14 psi)  
 Maximum inlet pressure 200 psi  
 Service Water

### AB-40 PERFORMANCE:

Outlet Pressure Range 2-30 psi (factory set 14 psi)  
 Maximum Inlet Pressure 200 psi  
 Service Cold water

### APPLICATIONS:

Larger hot water space heating boilers that require faster filling.

### AVAILABLE CONNECTIONS:

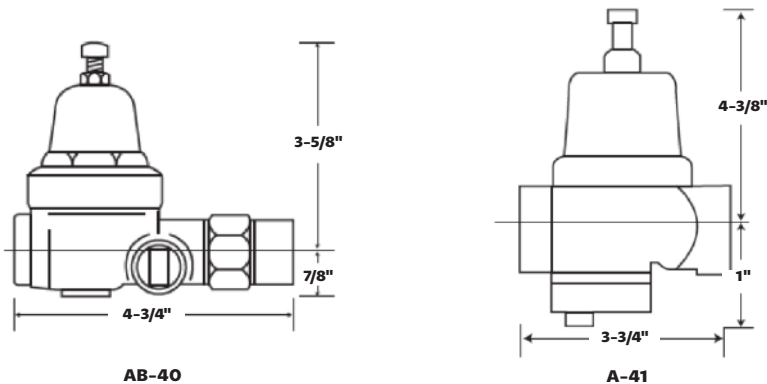
Threaded (NPT) A-41 3/4" Female threaded  
 Threaded (NPT) AB-40 1/2" Female

### APPROVALS AND LISTINGS:

ASSE 1012 and CSA B.64. Listed by ASSE and CSA.



| PRODUCT DESCRIPTION                            | PART NUMBER |
|------------------------------------------------|-------------|
| <b>NON-POTABLE A SERIES BOILER FEED VALVES</b> |             |
| 3/4" A-41 Boiler Feed Valves                   | 23099-0012  |
| 1/2" AB-40 Combo Union, In-Built Bypass        | 12214-0014  |





## A-89

### RESIDENTIAL, COMMERCIAL

The A-89 series pressure reducing boiler feed valve is the only anti-scaling boiler feed valve in the industry and features rapid fill capability and also includes a balanced piston for closer outlet control regardless of variations in inlet pressure. Standard reduced pressure setting is 14 psi with an adjustment range to 30 psi. Maximum inlet working pressure is 200 psi. Available with threaded connection or sweat copper union inlet.

#### FEATURES AND BENEFITS:

- Contains a polymer seat to prevent scaling
- Economical and easy to install
- Every valve is tested for performance prior to shipping
- Modular cartridge design reduces the number of parts requiring service or quick and easy service/repair

#### PERFORMANCE:

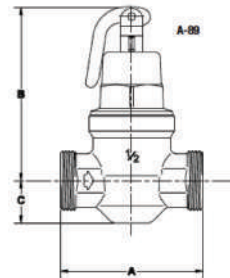
Outlet pressure range 10-30 psi (Factory set 14 psi)  
Maximum inlet pressure 200 psi  
Service Water

#### APPLICATIONS:

Larger hot water space heating boilers that require faster filling.

#### AVAILABLE CONNECTIONS:

Threaded (NPT) 1/2"  
Threaded (NPT) Union 1/2"  
Sweat Copper Union 1/2"  
Threaded (NPT) Double Union 1/2"



| DIMENSIONS (inches) | A      | B     | C      |
|---------------------|--------|-------|--------|
| A-89                | 3-9/16 | 4-3/8 | 1-1/16 |
| A-89 Union          | 4-5/16 | 4-3/8 | 1-1/16 |
| A-89 Double Union   | 5-1/16 | 4-3/8 | 1-1/16 |
| A-89C               | 4-5/16 | 4-3/8 | 1-1/16 |
| A-43CRF             | 3-5/8  | 3-5/8 | 3/4    |

| PRODUCT DESCRIPTION                            | PART NUMBER |
|------------------------------------------------|-------------|
| <b>NON-POTABLE A SERIES BOILER FEED VALVES</b> |             |
| 1/2" A-89 NPT                                  | 25082-0014  |
| 1/2" A-89C, Sweat                              | 25083-0014  |
| 1/2" A-89U, Single for Water                   | 25084-0014  |
| 1/2" A-89DU, Double for Water                  | 25085-0014  |
| 1/2" A-89 Direct SharkBite                     | 25521Z      |



## GENERAL PLUMBING & HEATING

### BFAC

#### RESIDENTIAL, COMMERCIAL

The BFAC pressure reducing backflow preventer combines the quality pressure reduction of the A-89 Pressure Reducing Boiler Feed Valve with the effective backflow prevention of the BFP Double-Check Backflow Preventer. The BFAC accurately reduces system pressure down to 14 psi while preventing the back-siphonage of contaminated water into the potable water supply. The BFAC features threaded (NPT) inlet and outlet connections.

#### FEATURES AND BENEFITS:

- Pressure reduction and prevention of water backflow in one compact valve
- A-89 contains a polymer seat to prevent scaling
- Economical and easy to install
- Features a double-check vacuum breaker backflow system preventing the reverse flow of polluted water
- Rapid fill and balanced piston allows for closer outlet control

#### PERFORMANCE:

|                        |                            |
|------------------------|----------------------------|
| Outlet pressure        | A-89 factory set at 14 psi |
| Maximum temperature    | 180°F (82.2°C)             |
| Maximum inlet pressure | 170 psi                    |
| Service                | Water                      |

#### APPLICATIONS:

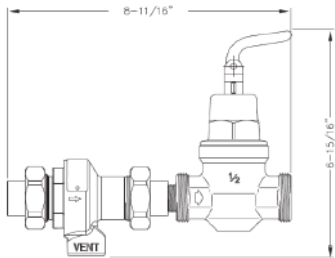
Designed specifically for smaller boiler feed lines.

#### AVAILABLE CONNECTIONS:

|                       |             |
|-----------------------|-------------|
| Sweat                 | 1/2" Inlet  |
| Threaded (NPT female) | 1/2" Outlet |



| PRODUCT DESCRIPTION                                            | PART NUMBER |
|----------------------------------------------------------------|-------------|
| <b>NON-POTABLE BFAC</b>                                        |             |
| 1/2" BFA Single Union Sweat Combination Backflow Preventer/PRV | 23029-0014  |





## CQ-M

### COMMERCIAL

The CQ-M series Hot Water Boiler Dual Control valve is constructed of a bronze body and features large unrestricted waterways, special heat resistant composition diaphragms, silicone relief seat and an easy to clean inbuilt stainless steel strainer. All units have a test lever and an inbuilt check valve to prevent backflow. Provides pressure control and protection from thermal expansion.

Note: The relief section of all Cash Acme Dual Controls is for thermal expansion ONLY. For proper pressure relief protection, the boiler must also be provided with a properly sized ASME rated relief valve.

#### FEATURES AND BENEFITS:

- Poppet relief design provides over-pressure protection
- Every valve is tested for performance prior to shipping
- Economical and exclusive design features

#### PERFORMANCE:

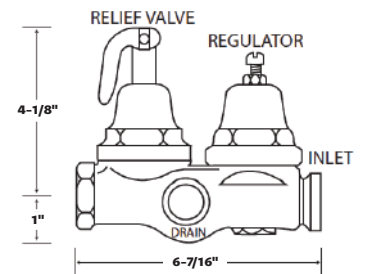
|                        |                |
|------------------------|----------------|
| Outlet pressure range  | 2 to 30 psi    |
| Maximum temperature    | 180°F (82.2°C) |
| Maximum inlet pressure | 100 psi        |
| Service                | Water          |

#### APPLICATIONS:

Designed for hot water space heating installations.

#### AVAILABLE CONNECTIONS:

|                |      |
|----------------|------|
| Threaded (NPT) | 1/2" |
| Sweat          | 1/2" |



| PRODUCT DESCRIPTION                                                      | PART NUMBER |
|--------------------------------------------------------------------------|-------------|
| <b>NON-POTABLE CQ DUAL CONTROL FOR HOT WATER BOILERS (ECONOMY MODEL)</b> |             |
| 1/2" CQ-M Bronze Body, Union Inlet (specify story)                       | 07045-0002  |



GENERAL PLUMBING & HEATING

CR  
COMMERCIAL

The CR series dual control valve for hot water space heating boilers features a balanced piston for closer outlet pressure control regardless of variations in inlet pressure and a rapid fill feature with an improved larger seat for higher capacities and quicker fill. It has an iron body, brass internal parts on the regulator, special heat resistant composition diaphragm and O-rings, brass strainer screen, and stainless steel springs. Relief valve has bronze body, silicone seat disc and stainless steel spring.

Note: The relief section of all Cash Acme Dual Controls is for thermal expansion only. For proper pressure relief protection, the boiler must also be provided with a properly sized ASME rated relief valve.

FEATURES AND BENEFITS:

- Poppet relief design provides over-pressure protection
- Every valve is tested for performance prior to shipping
- Economical and exclusive design features

PERFORMANCE:

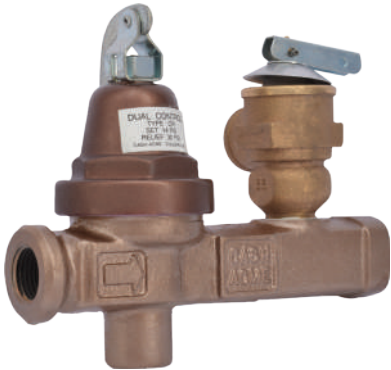
|                        |                       |
|------------------------|-----------------------|
| Outlet pressure        | Factory set at 14 psi |
| Maximum temperature    | 180°F (82.2°C)        |
| Maximum inlet pressure | 100 psi               |
| Service                | Water                 |

APPLICATIONS:

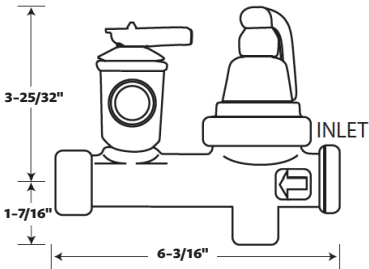
Designed for hot water space heating installations, the CR Series valve is suitable for 1-, 2- or 3-story buildings without adjustment.

AVAILABLE CONNECTIONS:

|                |                    |
|----------------|--------------------|
| Threaded (NPT) | 1/2" Inlet, Outlet |
| Sweat          | 1/2" Inlet         |



| PRODUCT DESCRIPTION                                               | PART NUMBER |
|-------------------------------------------------------------------|-------------|
| NON-POTABLE CR DUAL CONTROL FOR HOT WATER BOILERS (ECONOMY MODEL) |             |
| 1/2" CR Iron Body, Threaded, Rapid Fill                           | 18394-0002  |
| 1/2" CRC Iron Body, Copper Sweat, Rapid Fill                      | 18398-0002  |





## AIR SEPARATOR\*

### COMMERCIAL

Air Separators are intended for use in non-potable, hydronic heating systems to remove entrapped air from the circulating water. The Cash Acme Air Separators incorporate a "Separating Cartridge" that traps air and allows it to be vented via the integral air vent at the top of the unit.

#### FEATURES AND BENEFITS:

- High quality brass body with a nickel plated finish for durable construction and long lasting service
- Economical and easy to install
- Wide range of sizes to fit a variety of heating systems

#### PERFORMANCE:

Maximum temperature 240°F (115.6°C)  
 Maximum pressure 125 psi  
 Finish Nickel plated

#### APPLICATIONS:

Intended for use in non-potable, hydronic heating systems to remove entrapped air from the circulating water.

#### AVAILABLE CONNECTIONS:

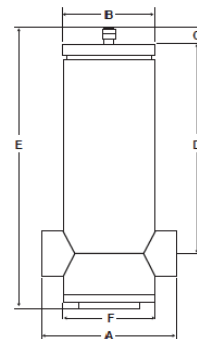
Threaded (NPT) 1/2", 3/4", 1", 1-1/4", 1-1/2" and 2"

Note: Each Air Separator comes complete with an alternate bottom plug with 1/2" NPT tapping.

\*While supplies last



| DIMENSIONS (inches) |         |       |   |        |        |         |
|---------------------|---------|-------|---|--------|--------|---------|
| ITEM – SIZE         | A       | B     | C | D      | E      | F       |
| 24077 - 1/2"        | 2-5/8   | 1-7/8 | 1 | 4-1/2  | 6-1/2  | 1-1/2   |
| 24078 - 3/4"        | 2-15/16 | 1-7/8 | 1 | 4-9/16 | 6-3/4  | 1-5/8   |
| 24079 - 1"          | 3-1/2   | 1-7/8 | 1 | 4-5/8  | 7      | 1-7/8   |
| 24080 - 1-1/4"      | 4       | 1-7/8 | 1 | 4-1/2  | 7-7/32 | 2-7/64  |
| 24081 - 1-1/2"      | 4-3/8   | 1-7/8 | 1 | 4-1/2  | 7-3/4  | 2-11/32 |
| 24082 - 2"          | 5-1/4   | 1-7/8 | 1 | 4-5/8  | 8-3/8  | 2-7/8   |



| PRODUCT DESCRIPTION               | PART NUMBER |
|-----------------------------------|-------------|
| <b>NON-POTABLE AIR SEPARATORS</b> |             |
| 1/2" Air Separator                | 24077       |
| 3/4" Air Separator                | 24078       |
| 1" Air Separator                  | 24079       |
| 1-1/4" Air Separator              | 24080       |
| 1-1/2" Air Separator              | 24081       |
| 2" Air Separator                  | 24082       |



# GENERAL PLUMBING & HEATING

## AIR PURGER\*

### COMMERCIAL

Air Purgers are specially designed to eliminate potential air from systems by entraining air to the top of the unit and venting through an air vent. Constructed of a one-piece cast iron design with internal baffles, the Cash Acme Air Purger is economical, easy to install, and requires no maintenance once installed within a system. Available in a variety of sizes ranging from 1" through 4".

#### FEATURES AND BENEFITS:

- One piece cast iron construction for durable construction and long lasting service
- Economical and easy to install
- Wide range of sizes to fit a variety of heating systems

#### APPLICATIONS:

For use in heating systems to trap entrained air from the circulating water.

#### AVAILABLE CONNECTIONS:

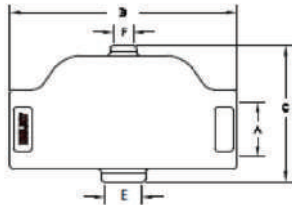
Threaded (NPT) 1", 1-1/4", 1-1/2", 2", 2-1/2", 3" and 4"

Note: Each Air Separator comes complete with an alternate bottom plug with 1/2" NPT tapping.

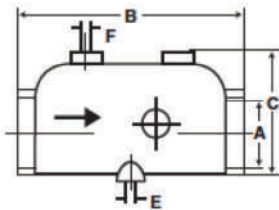
\*While supplies last



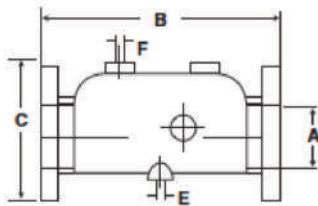
| Item  | A     | DIMENSIONS (inches) |       | TAPPING – NPT (inches) |     |     |
|-------|-------|---------------------|-------|------------------------|-----|-----|
|       |       | B                   | C     | A                      | F   | E   |
| 24083 | 1     | 6                   | 3-3/4 | 1                      | 1/8 | 1/2 |
| 24084 | 1-1/4 | 6                   | 3-3/4 | 1-1/4                  | 1/8 | 1/2 |



| Item  | A     | DIMENSIONS (inches) |   | TAPPING – NPT (inches) |     |     |
|-------|-------|---------------------|---|------------------------|-----|-----|
|       |       | B                   | C | A                      | F   | E   |
| 24085 | 1-1/2 | 8                   | 5 | 1-1/2                  | 1/8 | 1/2 |
| 24086 | 2     | 8                   | 5 | 2                      | 1/2 | 1/2 |
| 24087 | 2-1/2 | 10                  | 6 | 2-1/2                  | 3/4 | 1/2 |
| 24088 | 3     | 10                  | 6 | 3                      | 3/4 | 1/2 |



| Item  | A | DIMENSIONS (inches) |       | TAPPING – NPT (inches) |     |     |
|-------|---|---------------------|-------|------------------------|-----|-----|
|       |   | B                   | C     | A                      | F   | E   |
| 24089 | 4 | 10-1/2              | 9-1/4 | 4                      | 3/4 | 1/2 |



| PRODUCT DESCRIPTION                      | PART NUMBER |
|------------------------------------------|-------------|
| <b>NON-POTABLE AP SERIES AIR PURGERS</b> |             |
| 1" Air Purger                            | 24083       |
| 1-1/4" Air Purger                        | 24084       |
| 1-1/2" Air Purger                        | 24085       |
| 2-1/2" Air Purger                        | 24087       |



AIR VENT

COMMERCIAL

Air vents are used in commercial heating systems to vent potential air that is trapped within the system's circulating water. Constructed of all brass material, the Cash Acme Air Vent is economical, easy to install, and requires no maintenance once installed within a system.

FEATURES AND BENEFITS:

- High quality brass body with a nickel plated finish for durable construction and long lasting service
- Economical and easy to install

PERFORMANCE:

Working Pressure 90-150 psi (or refer to chart)  
Service Water

APPLICATIONS:

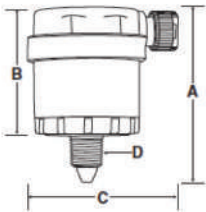
For use in heating systems to vent air trapped within the circulating water.

AVAILABLE CONNECTIONS:

Threaded (NPT) 1/8" and 1/4"



| DIMENSIONS (inches) |         |         |       |         |
|---------------------|---------|---------|-------|---------|
| ITEM                | A       | B       | C     | D       |
| 24090               | 1-15/16 | 1-21/32 | 1-7/8 | 1/8 NPT |
| 24091               | 1-15/16 | 1-21/32 | 1-7/8 | 1/4 NPT |



| PRODUCT DESCRIPTION             | PART NUMBER |
|---------------------------------|-------------|
| NON-POTABLE AP SERIES AIR VENTS |             |
| 1/8" Air Vent, Brass            | 24090       |
| 1/4" Air Vent, Brass            | 24091       |

# MADE IN THE USA

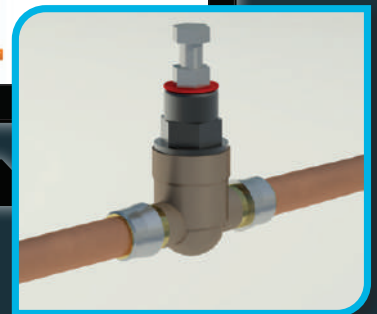
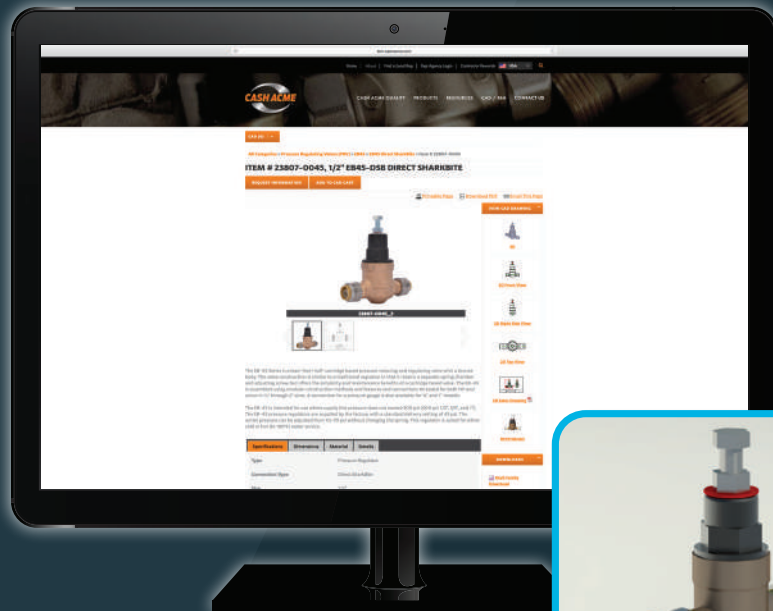
It's our commitment to quality that has driven a century of success with water control valves that stand the test of time. Proudly built in America for more than 100 years, Cash Acme's ISO 9001-certified quality assurance processes ensure that every valve that leaves our facility is 100% tested and meets all standards.

From our 550,000 square feet. manufacturing and distribution campus in Cullman, Alabama, Cash Acme's 200+ employees streamline operational excellence with proprietary programs to drive continuous improvement through key metrics, spanning production targets, delivery performance, inventory and safety. We proudly own our manufacturing process from start to finish, so every Cash Acme valve that's installed is guaranteed from concept to delivery.

Cash Acme valves are an important part of the North American operations of Reliance Worldwide Corporation(RWC) and our expertise in water valves around the world forms a core part of RWC's total package of global water control solutions. RWC succeeds on a world platform utilising an integrated global operations strategy and regional centres of excellence across our international company portfolio.



# ONLINE BUILDING INFORMATION MODELING (BIM) LIBRARY



## WHAT IS BIM?

The Cash Acme® BIM library is a comprehensive database of design files that allows professionals to specify, design and estimate their design-build projects quickly and accurately. Over 100 SKUs in 32 different file formats can be easily accessed through the online catalog on [CashAcme.com](https://www.cashacme.com).

- 32 file formats available, including Autodesk Revit and CADmep
- 2D as well as 3D drawings
- Not just accurate geometry – includes connectors and data properties
- Native files: not exported from manufacturing software
- All files are generated live from a database, giving you confidence the data is always up-to-date
- Easily navigate through product data and compare products side by side



# LIMITED WARRANTY

## SHARKBITE® AND CASH ACME® PRODUCTS

### WHAT DOES THIS WARRANTY COVER?

Subject to conditions outlined in this statement, RWC (in the USA, Reliance Worldwide Corporation and in Canada, Reliance Worldwide Corporation (Canada) Inc.) warrants to owners of real property in the United States and Canada that SharkBite and Cash Acme products, when used and installed in accordance with the requirements set forth, shall be free from defects in material and workmanship for the applicable Warranty Period. This Limited Warranty is in effect for installations made after January 1, 2016 and is applicable to products installed in the country in which they were purchased.

Proof of purchase is required to validate the Warranty Period. If proof of purchase is not available, the Warranty Period commencement shall default to the date of manufacture for each product. If the product suspected of a defect does not have a clear date of manufacture on it, a proof of purchase will be required.

### WHAT ARE THE CONDITIONS OF THIS WARRANTY?

1. All products must be installed in accordance with all then applicable codes, good plumbing practice, in accordance with any local, state, provincial or federal requirements, and installed in a potable water or radiant heating application unless a non-potable water service is specifically allowed for in the pertinent product literature.
2. The installer must use construction techniques compliant with then applicable codes to install the product and use the product within the design parameters specified in any installation guidelines and technical notes for the applicable system. This shall include field pressure testing prior to concealing with concrete or by other means and wrapping any brass fitting when buried. Failure to install RWC products according to manufacturer's installation instruction will void all applicable warranties and may result in severe water damage.
3. Products must at all times be used in a manner consistent with their intended use and be used in installations and environments acceptable to their material and design specifications, including not being installed in a system that may operate at temperatures or at pressures that exceed the approved ratings which can be found on the product, packaging or installation instructions.
4. Additional product specific conditions of this Limited Warranty and the Warranty Period are documented in the section entitled "HOW LONG DOES THE LIMITED WARRANTY COVERAGE LAST AND WHAT OTHER SPECIFIC CONDITIONS EXIST FOR EACH PRODUCT?". A condition for SharkBite Connection Systems is that the product must be installed by a licensed professional plumbing contractor.
5. Without limiting the foregoing, this Limited Warranty does not apply and you do not have a right of reimbursement if the product failure or resulting damage is caused by: (a) evidence of tampering, mishandling, neglect, abuse, accidental damage, freeze damage (it is expressly understood that failure as a result of any freezing fluids within the pipes does not constitute a defect in material or workmanship and shall not be covered by this warranty) or unauthorized modifications or repairs that cause damage to warranted products; (b) exposure to harmful, unauthorized, or unanticipated chemicals or substances or corrosive water conditions; (c) exposure to ultraviolet light; (d) faulty installation including failure to follow proper burial instructions; (e) damage from abnormal operating conditions including exposure pressures and temperatures beyond the specified operating range; (f) failure to properly test and pass common testing methods (including pressure testing) after the installation and before the product or system is put in service; (g) components not manufactured or sold by RWC; or (h) acts of nature such as earthquakes, fire, flood or lightning.
6. Although RWC provides a plumbing system to facilitate a complete installation, other manufacturers pipe and/or fittings may be installed in any given installation provided manufacturing of the pipe and/or fittings demonstrates compliance with the applicable ASTM/CSA standards, and the product has been certified by a recognized third-party testing agency. The RWC product in the given installation will continue to be covered under this Limited Warranty although limits on Warranty Period may apply. RWC will be responsible only for proven defects in material or workmanship in RWC products. Problems in products manufactured by another company should be reported to that manufacturer.

### HOW DO YOU GET SERVICE?

In order to be eligible for service under this Limited Warranty you must return the defective product to RWC for inspection and testing within thirty (30) days after detection of alleged failure or defect occurring within applicable Warranty Period (with shipping charges prepaid) to the original place of purchase. If the alleged defect involves a connection or joint with a RWC

product, the fitting must be returned with a section of the pipe still inserted. You must include the model number of the product (if available), the original date of purchase, proof of purchase and the nature of the alleged product failure or defect. Products returned without shipping charges prepaid will be refused. For questions or inquiries, in the U.S. call 1(877)700-4242 and in Canada 1(888)820-0120.

### WHAT WILL RWC DO?

If, after inspection, we find that a product covered by this Limited Warranty has failed due to a defect in material or workmanship during the specified Warranty Period, we will repair or replace, at our sole option, free of charge, the defective product during normal working hours and through a place of business as determined by RWC.

Notwithstanding anything to the contrary in this Limited Warranty, if RWC determines that any damages to the real property in which a defective product was installed were the direct result of a leak or failure caused by a defect in material or workmanship in any RWC product covered by this Limited Warranty and occurring within the first ten years after date of purchase or during the applicable Warranty Period, whichever is shorter, and if reasonable steps were taken to promptly limit or stop the effects of such leak or failure as soon as it was discovered, then RWC will reimburse the property owner for the reasonable costs of repairing or replacing such damaged real property to include flooring, drywall and painting and other real property damaged by the leak directly caused by the allegedly defective RWC product. Except as specified above or otherwise specifically authorized in writing by RWC, RWC shall not pay for any costs or expenses for transportation, relocation, labor, repairs or any other work associated with removing and/or returning failed or defective products or installing replacement products.

This shall constitute the sole and exclusive remedy for any defective product.

### WHAT DOES THIS LIMITED WARRANTY NOT COVER?

RWC shall not be responsible for any other incidental, indirect, contingent, special or consequential damages, including without limitation, economic loss, lost profits or the cost of repairing or replacing other property which is damaged if these warranted products do not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, adverse chemical environments, or any other circumstances over which RWC has no control. This limitation applies even if RWC could have foreseen or has been advised of the possibility of these damages. This Limited Warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product. Any remaining warranty coverage may not be assigned or transferred after the period ending ten years following the installation. RWC does not guarantee or in any way warrant the integrity or workmanship of the contractor/installer.

### MISCELLANEOUS

Some States/Provinces do not allow limitations on how long an implied warranty lasts, and some States/Provinces do not allow the exclusion or limitation of incidental or consequential damages. Therefore, the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights that vary from State/Province to State/Province. You should consult applicable State/Provincial laws to determine your rights.

SO FAR AS IS CONSISTENT WITH APPLICABLE STATE/ PROVINCIAL/ FEDERAL LAW, THE EXPRESS WARRANTY SET FORTH HEREIN IS THE ONLY WARRANTY GIVEN BY RWC WITH RESPECT TO THE SHARKBITE® AND CASH ACME® PRODUCTS AND RWC MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND HEREBY SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

This Limited Warranty and any claims arising from breach of contract, breach of warranty, tort, or any other claim arising from sale or use of RWC's products shall be governed and construed under the laws of the State of Georgia. No action on the part of RWC under this Limited Warranty shall be construed as an admission of liability of that the product is not fit for its intended use.

**HOW LONG DOES THE LIMITED WARRANTY COVERAGE LAST AND WHAT OTHER SPECIFIC CONDITIONS EXIST FOR EACH PRODUCT?**

| CLASSIFICATION                   | PRODUCT CATEGORY                                                                                                                                          | LIMITED WARRANTY PERIOD | COMMENTS                                                                                                                                                                                                                                                                                                  |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SharkBite Connection Systems     | SharkBite Brass and Poly PEX Barb Fittings in conjunction with SharkBite PEX Pipe and SharkBite Rings/Clamps                                              | Twenty-Five (25) Years  | System must be installed by a licensed professional plumbing contractor and include: <ul style="list-style-type: none"> <li>• SharkBite PEX Pipe Only - ASTM F876/CSA B137.5</li> <li>• SharkBite Copper Crimp Rings – ASTM F1807 or F2159</li> <li>• Stainless Steel Clamp Rings – ASTM F2098</li> </ul> |
|                                  | SharkBite EvoPEX Fittings in conjunction with SharkBite PEX Pipe                                                                                          | Twenty-Five (25) Years  | System must be installed by a licensed professional plumbing contractor and include: <ul style="list-style-type: none"> <li>• SharkBite PEX Pipe Only - ASTM F876/CSA B137.5</li> </ul>                                                                                                                   |
| SharkBite and Cash Acme Products | SharkBite Universal Push-To-Connect Fittings and SharkBite 2XL Large Diameter Push-To-Connect Fittings in Application with Copper, PEX, CPVC and/or PE-RT | Twenty-Five (25) Years  | Must be used with: <ul style="list-style-type: none"> <li>• Copper–ASTM B 88 hard drawn copper tube K, L, and M</li> <li>• PEX–ASTM F876/CSA B137.5</li> <li>• CPVC–ASTM D2846 or CSA B137.6</li> <li>• PE-RT–ASTM F2769</li> </ul>                                                                       |
|                                  | SharkBite Universal Push-To-Connect Fittings and SharkBite 2XL Large Diameter Push-To-Connect Fittings in Application with HDPE                           | Five (5) Years          | Must be used with: <ul style="list-style-type: none"> <li>• HDPE SDR-9 ASTM D2737</li> </ul>                                                                                                                                                                                                              |
|                                  | SharkBite PEX Pipe                                                                                                                                        | Twenty-Five (25) Years  | Must be used with: <ul style="list-style-type: none"> <li>• ASSE 1061, ASTM F1807, ASTM F2098, and/or ASTM F2159 Fittings</li> </ul>                                                                                                                                                                      |
|                                  | SharkBite Brass PEX Barb Fittings/ Copper Manifold                                                                                                        | Five (5) Years          | Must be used with Non-SharkBite PEX Pipe and Clamps/Rings that conform to: <ul style="list-style-type: none"> <li>• PEX – ASTM F876/CSA B137.5</li> <li>• Copper Crimp Rings – ASTM F1807</li> <li>• Stainless Steel Clamp Rings – ASTM F2098</li> </ul>                                                  |
|                                  | SharkBite Poly PEX Barb Fittings                                                                                                                          | Five (5) Years          | Must be used with Non-SharkBite PEX Pipe and Clamps/Rings that conform to: <ul style="list-style-type: none"> <li>• PEX – ASTM F876/CSA B137.5</li> <li>• Copper Crimp Rings – ASTM F2159</li> <li>• Stainless Steel Clamp Rings – ASTM F2098</li> </ul>                                                  |
|                                  | SharkBite EvoPEX Fittings                                                                                                                                 | Five (5) Years          | Must be used on Non-SharkBite PEX Pipe that conform to ASTM F876/CSA B137.5                                                                                                                                                                                                                               |
|                                  | SharkBite Tools                                                                                                                                           | One (1) Year            | From date of purchase; used in accordance with instructions                                                                                                                                                                                                                                               |
|                                  | SharkBite and Cash Acme Thermostatic Mixing Valves                                                                                                        | Five (5) Years          | Must be installed per installation instructions                                                                                                                                                                                                                                                           |
|                                  | Other SharkBite and Cash Acme Valves                                                                                                                      | Two (2) Years           | Must be installed per installation instructions                                                                                                                                                                                                                                                           |
|                                  | SharkBite Accessories (Ball Valves, Supply Hoses, Supply Stops, Supply Valve Box Systems, Kits, Manifolds, etc.)                                          | Two (2) Years           | Must be installed per installation instructions                                                                                                                                                                                                                                                           |
|                                  | SharkBite Quick-Connect POM Plastic Fittings                                                                                                              | One (1) Years           | Must be used with: Polyethylene, Nylon, PEX, and Soft Copper (must be round and in good condition)                                                                                                                                                                                                        |



[rwc.com](http://rwc.com)

**cashacme.com**

Manufactured and distributed by Reliance Worldwide Corporation

Certifications

The most up to date certifications can be found at  
[cashamce.com/resources](http://cashamce.com/resources).

2021-8

