



**SharkBite®**  
**CONNECTION SYSTEM**



Reliance Worldwide USA

AUGUST 2010



# The SharkBite® Connection System Includes Push-Fit and Barb Products and PEX tubing.

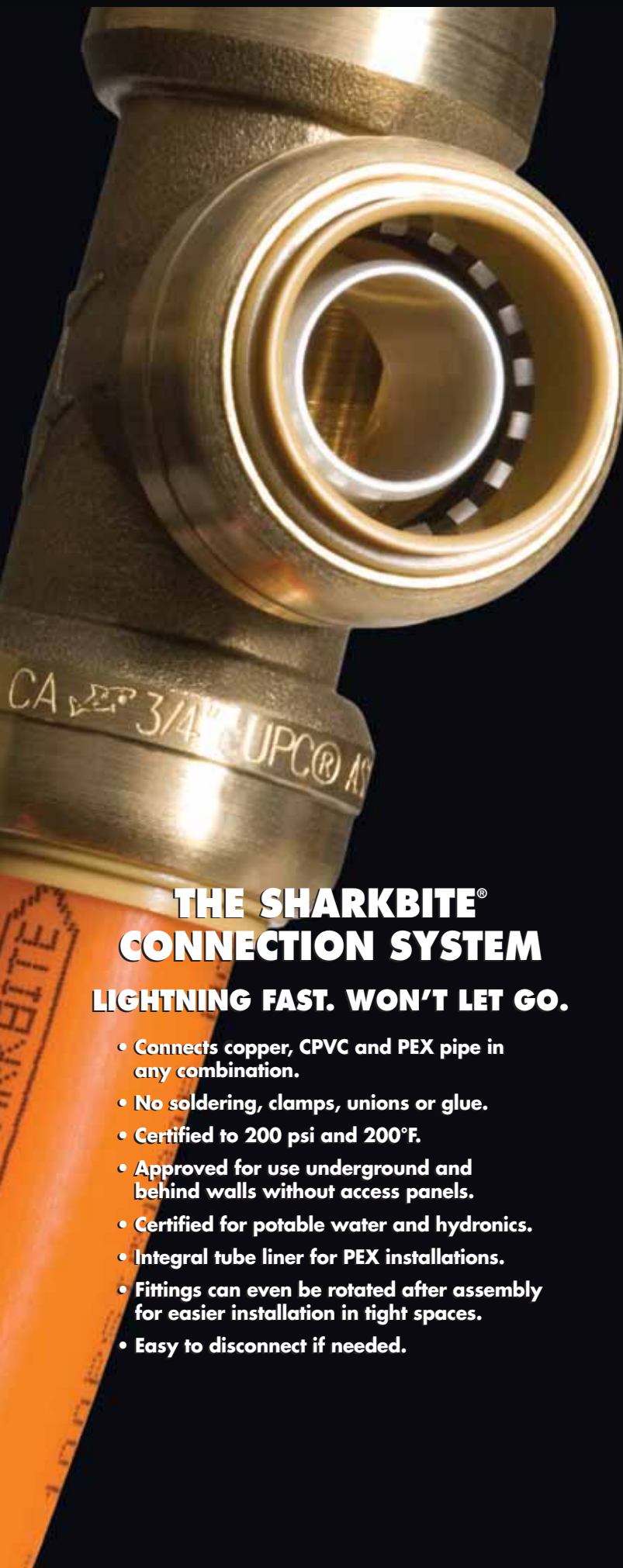
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## THE SHARKBITE® CONNECTION SYSTEM

**LIGHTNING FAST. WON'T LET GO.**

- Connects copper, CPVC and PEX pipe in any combination.
- No soldering, clamps, unions or glue.
- Certified to 200 psi and 200°F.
- Approved for use underground and behind walls without access panels.
- Certified for potable water and hydronics.
- Integral tube liner for PEX installations.
- Fittings can even be rotated after assembly for easier installation in tight spaces.
- Easy to disconnect if needed.

### TYPICAL SHARKBITE® APPLICATIONS



#### ADD NEW SERVICE LINES AND EQUIPMENT

Use SharkBite® slip tees and other fittings to add a service line or install equipment such as expansion tanks.



#### WET OR DRY REPAIRS

There's no faster way to make a repair – wet or dry. You can connect copper, CPVC or PEX pipe in any combination. Cut. Push. Done.



#### WATER HEATER FLEX CONNECTORS

Install or replace a water heater. It's a breeze with SharkBite® flexible connectors or the Water Heater installation kits.



#### STOPS AND FIXTURE SUPPLY FITTINGS

The SharkBite® system includes a broad range of fittings for installing fixtures and appliances. You can even make custom length risers with SharkBite 1/4" PEX.



#### HYDRONIC HEATING SYSTEMS

Under the floor or behind a wall, a broad range of SharkBite® push-fit fittings and PEX products gives you confident connections.

### INSTALLATION AND DISCONNECTION



#### EASY INSTALLATION

Ensure the pipe is cut square, using the U702 tool – remove rough edges/debris and mark the pipe for depth. Push pipe and fitting together up to the depth mark.



#### FAST DISASSEMBLY

Using the simple disconnect clip or tongs, fittings can be easily changed and reused.

## THE SHARKBITE® CONNECTION SYSTEM

### SharkBite® Push-Fit Products

SharkBite continues to lead the industry with an expansive line of fittings, valves and other innovative, labor saving products for plumbing projects. SharkBite push-fit fittings are the fastest, easiest way to join copper, CTS CPVC and PEX in any combination. With no soldering or glue. Certified: 200 psi & 200° F (93° C). Use for new installation and repair of potable water distribution systems. See certifications & approvals on page 12.

### Couplings

#### Straight Couplings

|                                                                                   | SIZE           | P/N  | P/N (Lead Free) |
|-----------------------------------------------------------------------------------|----------------|------|-----------------|
|  | 1/4" (3/8" OD) | U004 | U004LF          |
|                                                                                   | 3/8" (1/2" OD) | U006 | U006LF*         |
|                                                                                   | 1/2" X 1/2"    | U008 | U008LF          |
|                                                                                   | 5/8" X 5/8"    | U012 | —               |
|                                                                                   | 3/4" X 3/4"    | U016 | U016LF          |
|                                                                                   | 1" X 1"        | U020 | U020LF          |

#### Reducing Couplings

|                                                                                    |                       |      |        |
|------------------------------------------------------------------------------------|-----------------------|------|--------|
|  | 3/8" (1/2" OD) X 1/2" | U009 | U009LF |
|                                                                                    | 3/4" X 5/8"           | U057 | —      |
|                                                                                    | 3/4" X 1/2"           | U058 | U058LF |
|                                                                                    | 1" X 3/4"             | U060 | U060LF |

#### PB Conversion Couplings

|                                                                                     |                |       |         |
|-------------------------------------------------------------------------------------|----------------|-------|---------|
|  | 1/2" X 1/2" PB | U4008 | U4008LF |
|                                                                                     | 3/4" X 3/4" PB | U4016 | U4016LF |

### Connectors

#### Straight Connectors

|                                                                                     |                  |      |        |
|-------------------------------------------------------------------------------------|------------------|------|--------|
|  | 1/2" X 1/2" FNPT | U072 | U072LF |
|                                                                                     | 3/4" X 3/4" FNPT | U088 | U088LF |
|                                                                                     | 1" X 1" FNPT     | U094 | U094LF |
|                                                                                     | 1/2" X 1/2" MNPT | U120 | U120LF |
|                                                                                     | 3/4" X 3/4" MNPT | U134 | U134LF |
|                                                                                     | 1" X 1" MNPT     | U140 | U140LF |

#### Bullnose Connectors

|                                                                                     |                  |      |          |
|-------------------------------------------------------------------------------------|------------------|------|----------|
|  | 3/4" X 1/2" FNPT | U092 | U092LF** |
|                                                                                     | 3/4" X 1/2" MNPT | U138 | U138LF   |

#### Reducing Connectors

|                                                                                     |                            |      |          |
|-------------------------------------------------------------------------------------|----------------------------|------|----------|
|  | 1/4" (3/8" OD) X 1/2" FNPT | U066 | U066LF   |
|                                                                                     | 1/2" X 3/4" FNPT           | U068 | U068LF   |
|                                                                                     | 3/8" (1/2" OD) X 1/2" FNPT | U070 | U070LF*  |
|                                                                                     | 1/4" X 1/2" MNPT           | U110 | U110LF   |
|                                                                                     | 1/2" X 3/4" MNPT           | U116 | U116LF   |
|                                                                                     | 3/8" (1/2" OD) X 1/2" MNPT | U118 | U118LF*  |
|                                                                                     | 5/8" X 3/4" MNPT           | U126 | —        |
|                                                                                     | 3/4" X 1" MNPT             | U139 | U139LF** |
|                                                                                     | 1" X 3/4" MNPT             | U142 | U142LF   |

### Elbows

|  | SIZE             | P/N  | P/N (Lead Free) |
|-----------------------------------------------------------------------------------|------------------|------|-----------------|
|                                                                                   | 1/4" (3/8" OD)   | U244 | U244LF          |
|                                                                                   | 3/8" (1/2" OD)   | U246 | U246LF*         |
|                                                                                   | 1/2" X 1/2"      | U248 | U248LF          |
|                                                                                   | 5/8" X 5/8"      | U252 | —               |
|                                                                                   | 3/4" X 3/4"      | U256 | U256LF          |
|                                                                                   | 1" X 1"          | U260 | U260LF          |
|                                                                                   | 1/2" X 1/2" MNPT | U280 | U280LF          |
|                                                                                   | 1/2" X 1/2" FNPT | U308 | U308LF          |

#### Reducing Elbow

|                                                                                   |                       |      |          |
|-----------------------------------------------------------------------------------|-----------------------|------|----------|
|  | 1/2" X 3/8" (1/2" OD) | U272 | U272LF** |
|                                                                                   | 3/4" X 5/8"           | U273 | —        |
|                                                                                   | 3/4" X 1/2"           | U274 | U274LF   |
|                                                                                   | 1" X 3/4"             | U278 | U278LF** |

#### Dishwasher Elbow

|                                                                                   |                          |        |          |
|-----------------------------------------------------------------------------------|--------------------------|--------|----------|
|  | 1/4" X 3/8" MIP          | U276   | U276LF   |
|                                                                                   | 1/2" X 3/8" MNPT         | U281   | U281LF** |
|                                                                                   | 1/4" (3/8" OD) X 3/4" GH | U2276† | U2276LF† |

#### Drop Ear Elbows

|                                                                                    |                            |      |         |
|------------------------------------------------------------------------------------|----------------------------|------|---------|
|  | 1/2" X 1/2"                | U249 | U249LF  |
|                                                                                    | 3/8" (1/2" OD) X 1/2" FNPT | U332 | U332LF* |
|                                                                                    | 1/2" X 1/2" FNPT           | U334 | U334LF  |
|                                                                                    | 3/4" X 3/4" FNPT           | U340 | U340LF  |

#### Hy-Ear Elbow

|                                                                                     |                  |      |        |
|-------------------------------------------------------------------------------------|------------------|------|--------|
|  | 1/2" X 1/2" FNPT | U335 | U335LF |
|-------------------------------------------------------------------------------------|------------------|------|--------|

### Tees

|                                                                                     |                         |      |          |
|-------------------------------------------------------------------------------------|-------------------------|------|----------|
|  | 1/4" (3/8" OD)          | U358 | U358LF   |
|                                                                                     | 3/8" (1/2" OD)          | U360 | U360LF*  |
|                                                                                     | 1/2" X 1/2" X 1/2"      | U362 | U362LF   |
|                                                                                     | 5/8" X 5/8" X 5/8"      | U366 | —        |
|                                                                                     | 3/4" X 3/4" X 3/4"      | U370 | U370LF   |
|                                                                                     | 3/4" X 3/4" X 3/4" FNPT | U462 | U462LF** |
|                                                                                     | 1" X 1" X 1"            | U374 | U374LF   |
|                                                                                     | 1" X 1" X 1" FNPT       | U464 | U464LF** |

#### Bullnose Tee

|                                                                                     |                                        |      |          |
|-------------------------------------------------------------------------------------|----------------------------------------|------|----------|
|  | 3/8" (1/2" OD) X 3/8" (1/2" OD) X 1/2" | U364 | U364LF** |
|-------------------------------------------------------------------------------------|----------------------------------------|------|----------|

#### Reducing Tee

|                                                                                     |                              |      |          |
|-------------------------------------------------------------------------------------|------------------------------|------|----------|
|  | 1/2" X 1/2" X 1/4" (3/8" OD) | U359 | U359LF** |
|                                                                                     | 1/2" X 1/2" X 3/8" (1/2" OD) | U363 | U363LF*  |
|                                                                                     | 3/4" X 3/4" X 1/2"           | U412 | U412LF   |
|                                                                                     | 3/4" X 1/2" X 3/4"           | U444 | U444LF   |
|                                                                                     | 3/4" X 1/2" X 1/2"           | U454 | U454LF   |
|                                                                                     | 1" X 1" X 3/4"               | U416 | U416LF   |

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### End Stops



| SIZE           | P/N  | P/N (Lead Free) |
|----------------|------|-----------------|
| 3/8" (1/2" OD) | U512 | U512LF*         |
| 1/2"           | U514 | U514LF          |
| 5/8"           | U516 | —               |
| 3/4"           | U518 | U518LF          |
| 1"             | U520 | U520LF          |

### Fitting Reducers (Use to connect to smaller pipe sizes)



|                           |      |          |
|---------------------------|------|----------|
| 3/8" (1/2" OD) X 1/2" CTS | U719 | U719LF** |
| 3/8" (1/2" OD) X 3/4" CTS | U721 | U721LF** |
| 1/2" X 1" CTS             | U722 | U722LF** |
| 3/4" X 1" CTS             | U724 | U724LF** |

### Threaded Adapters



|                      |      |          |
|----------------------|------|----------|
| 3/4" CTS X 3/4" FNPT | U766 | U766LF*  |
| 1" CTS X 1" FNPT     | U772 | U772LF** |

### Slip Fittings - For use with copper only.

Slip fittings simplify repair by doing the job that two couplings and extra pipe used to do. Only one end of the coupling has a stop, allowing the other end to slide freely over the end of a pipe. The fitting can be released with a disconnect tool and slid back onto the other end of the pipe for successful leak repair.

#### Slip Couplings



|      |       |         |
|------|-------|---------|
| 1/2" | U3008 | U3008LF |
| 3/4" | U3016 | U3016LF |
| 1"   | U3020 | U3020LF |

#### Slip Tees



|                         |       |         |
|-------------------------|-------|---------|
| 1/2"                    | U3362 | U3362LF |
| 3/4"                    | U3370 | U3370LF |
| 1/2" X 1/2" X 1/2" FNPT | U3482 | U3482LF |
| 3/4" X 3/4" X 3/4" FNPT | U3486 | U3486LF |

#### Service Slip Tee Adapter



|                        |       |         |
|------------------------|-------|---------|
| 1/2" X 1/2" X 1/2" CTS | U4482 | U4482LF |
|------------------------|-------|---------|

### Water Hammer Arrestor



Provides maintenance-free, continuous protection against water hammer. Can be positioned vertically or horizontally and the SharkBite® connectors allow the arrestor to be installed in seconds, even on wet pipe.

|                  |       |   |
|------------------|-------|---|
| 1/2" Residential | 22630 | — |
| 1/2" Commercial  | 22631 | — |
| 3/4" Residential | 22632 | — |
| 1" Commercial    | 22633 | — |

### Manifolds with SharkBite® Push-fit Branches



Manifolds are traditionally used in PEX systems, but this new SharkBite manifold will allow easy incorporation into copper or CPVC systems. Use SharkBite push fittings to install these manifolds anywhere in a plumbing system. All manifolds have a 1" trunk with 3/4" tube inlets & outlets and 1/2" push-fit ports (2" on center).

|               |       |         |
|---------------|-------|---------|
| 3 port open   | 22995 | 22995LF |
| 3 port closed | 22996 | 22996LF |
| 4 port open   | 22997 | 22997LF |
| 4 port closed | 22998 | 22998LF |

### Flexible Water Heater Connectors

The stainless steel braided flexible hose and the rotatability of the SharkBite fitting allow making connections in tight spaces without additional fitting, soldering or glue. Available with integral ball valve.



|                      |             |               |
|----------------------|-------------|---------------|
| 1/2" X 3/4" FIP, 12" | U3068FLEX12 | U3068FLEX12LF |
| 1/2" X 3/4" FIP, 15" | U3068FLEX15 | U3068FLEX15LF |
| 1/2" X 3/4" FIP, 18" | U3068FLEX18 | U3068FLEX18LF |
| 1/2" X 3/4" FIP, 24" | U3068FLEX24 | U3068FLEX24LF |
| 3/4" X 3/4" FIP, 12" | U3088FLEX12 | U3088FLEX12LF |
| 3/4" X 3/4" FIP, 15" | U3088FLEX15 | U3088FLEX15LF |
| 3/4" X 3/4" FIP, 18" | U3088FLEX18 | U3088FLEX18LF |
| 3/4" X 3/4" FIP, 24" | U3088FLEX24 | U3088FLEX24LF |



|                         |               |                 |
|-------------------------|---------------|-----------------|
| 1/2" BV X 3/4" FIP, 18" | U3068FLEX18BV | U3068FLEX18BVLF |
| 3/4" BV X 3/4" FIP, 18" | U3088FLEX18BV | U3088FLEX18BVLF |

### Water Heater Installation Kit

Kits include 2 SharkBite® connector fittings and a disconnect clip.



|                  |       |         |
|------------------|-------|---------|
| 1/2" X 3/4" FNPT | 22604 | 22604LF |
| 3/4" X 3/4" FNPT | 22441 | 22441LF |

### Contractor Kits

These SharkBite® Kits include a variety of push-fit fittings, disconnect tongs and clips, and a sturdy case for storage and transport. Cash Acme's SharkBite Connection System is a revolutionary solution for connecting or repairing water distribution pipe.

#### Contractor Kit

**Includes 2 each:** U008, U016, U058, U072, U088, U120, U134, U248 and U256. **1 each:** U362, U370, U514, U518, U710, U711, U713 and U702.

|       |         |
|-------|---------|
| 22486 | 22486LF |
|-------|---------|



#### Irrigation Kit

**Includes 2 each:** U016, U020, U134, U140, U256 and U260. **1 each:** U088, U094, U370, U374, U518, U520, U702, U712, U713, U714, U715, U766, U772 and U3016.

|       |   |
|-------|---|
| 22795 | — |
|-------|---|



Available: \*September 2010, \*\*December 2010



1-877-700-4242

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## THE SHARKBITE® CONNECTION SYSTEM

### Stops & Fixture Supply Fittings

#### Angle Stop

| SIZE                  | P/N        | P/N (Lead Free) |
|-----------------------|------------|-----------------|
| 1/2" X 1/4" (3/8" OD) | 23048-0000 | 23048LF         |
| 1/2" X 3/8" comp      | 23036-0000 | 23036LF         |
| 1/2" X 1/4" comp      | 23336-0000 | 23336LF         |

#### Straight Stop

| SIZE                  | P/N        | P/N (Lead Free) |
|-----------------------|------------|-----------------|
| 1/2" X 1/4" (3/8" OD) | 23049-0000 | 23049LF         |
| 1/2" X 3/8" comp      | 23037-0000 | 23037LF         |
| 1/2" X 1/4" comp      | 23337-0000 | 23337LF         |

#### Stop Valve Tee Adapter

|                                                            |       |         |
|------------------------------------------------------------|-------|---------|
| 1/4" (3/8"OD) X<br>1/4" (3/8"OD) X 3/8"<br>compression nut | U3358 | U3358LF |
| 1/4" (3/8"OD) X<br>1/4" (3/8"OD) X<br>1/4" (3/8"OD) tube   | U4358 | U4358LF |

#### Stop Valve Connector

|                                         |       |         |
|-----------------------------------------|-------|---------|
| 1/4" (3/8"OD) X 3/8"<br>compression nut | U3523 | U3523LF |
|-----------------------------------------|-------|---------|

Converts 3/8" compression stop to SharkBite

#### Faucet Connector

|                                      |       |         |
|--------------------------------------|-------|---------|
| 1/4" (3/8"OD) X<br>1/2" Faucet Valve | U3525 | U3525LF |
|--------------------------------------|-------|---------|

#### Toilet Connectors

|                                           |       |         |
|-------------------------------------------|-------|---------|
| 1/4" (3/8"OD) X<br>Toilet Valve, Straight | U3531 | U3531LF |
| 1/4" (3/8"OD) X<br>Toilet Valve, Elbow    | U3537 | U3537LF |

### Faucet & Toilet Kits

Faucet kits contain 2 connectors, 2 coils of PEX and 2 stops. Toilet kits contain a connector, a straight or angle stop and one 5' coil of 1/4" (3/8" OD) PEX tubing.

|                        |        |          |
|------------------------|--------|----------|
| Faucet w/Angle Stop    | 23387† | 23387LF† |
| Faucet w/Straight Stop | 23388† | 23388LF† |
| Toilet w/Angle Stop    | 23389† | 23389LF† |
| Toilet w/Straight Stop | 23390† | 23390LF† |

### Tools

#### Safe Seal Tool

|                                                                                            |      |   |
|--------------------------------------------------------------------------------------------|------|---|
| Deburring and depth gauge all in one. For 1/4", 1/2", 3/4" & 1" PEX, copper and CPVC pipe. | U702 | — |
|--------------------------------------------------------------------------------------------|------|---|

#### Disconnect Clips

| SIZE | P/N   | P/N (Lead Free) |
|------|-------|-----------------|
| 1/4" | U706  | —               |
| 3/8" | U708  | —               |
| 1/2" | U710  | —               |
| 5/8" | U3712 | —               |
| 3/4" | U712  | —               |
| 1"   | U714  | —               |

#### Disconnect Tongs

|      |      |   |
|------|------|---|
| 1/2" | U711 | — |
| 3/4" | U713 | — |
| 1"   | U715 | — |

### Cash Acme Valves with SharkBite® Connectors

Cash Acme valves with integral or union type SharkBite push-fit connectors offer a tremendous time and labor saving combination for any plumbing application.

### Check Valves

A general purpose, spring loaded check valve that can be installed on copper, CTS CPVC and PEX. The SharkBite® check valve can be installed horizontally or vertically and prevents the reverse flow of water in the supply line.

|      |             |               |
|------|-------------|---------------|
| 1/2" | U2008-0000A | U2008-0000LFA |
| 3/4" | U2016-0000A | U2016-0000LFA |
| 1"   | U2020-0000A | U2020-0000LFA |

### Ball Valves

Full port ball valve now comes with integral SharkBite® connectors for easy installation. The body is composed of highly forged brass and features a single lever control. Use for entire systems, sections or components.

|                  |            |                |
|------------------|------------|----------------|
| 1/2"             | 22222-0000 | 22222-0000LF   |
| 3/4"             | 22185-0000 | 22185-0000LF   |
| 1"               | 22223-0000 | 22223-0000LF   |
| 1/2" X 1/2" FNPT | 22182-0000 | 22182-0000LF** |
| 3/4" X 3/4" FNPT | 22186-0000 | 22186-0000LF** |
| 1" X 1" FNPT     | 22187-0000 | 22187-0000LF** |
| 1/2" with drain  | 22304-0000 | —              |
| 3/4" with drain  | 22305-0000 | —              |
| 1" with drain    | 22306-0000 | —              |

Available: †October 2010, \*\*December 2010



## Regulators

The innovative, labor reducing SoloSet® EB-25, the EB-35, and the EB-45 pressure reducing regulators are all available with double union or direct SharkBite® connectors. The EB-25 is set at 45 psi and features a twist cap with a numerical pressure indicator for easy one-man adjustment. The EB-35 is factory set at 45 psi with an adjustment range of 20-90 psi depending on valve size. The EB-45 is factory set at 45 or 60 psi and is adjustable to 10-70 psi.

### With SharkBite® Direct Connectors

|                                                                                   | SIZE       | P/N        | P/N (Lead Free) |
|-----------------------------------------------------------------------------------|------------|------------|-----------------|
|  | EB-35 1/2" | 22670-0045 | —               |
|                                                                                   | EB-35 3/4" | 22671-0045 | —               |
|                                                                                   | EB-35 1"   | 22672-0045 | —               |
|                                                                                   | EB-45 1/2" | 22673-0045 | —               |
|                                                                                   | EB-45 3/4" | 22674-0045 | —               |
|                                                                                   | EB-45 1"   | 22675-0045 | —               |

### With SharkBite® Double Unions & 45 psi Set Pressure

|                                                                                   |            |            |            |
|-----------------------------------------------------------------------------------|------------|------------|------------|
|  | EB-25 3/4" | 22857-0045 | —          |
|                                                                                   | EB-25 1"   | 22927-0045 | —          |
|                                                                                   | EB-35 1/2" | 22858-0045 | —          |
|                                                                                   | EB-35 3/4" | 22859-0045 | —          |
|                                                                                   | EB-35 1"   | 22928-0045 | —          |
|                                                                                   | EB-45 1/2" | 22860-0045 | —          |
|                                                                                   | EB-45 3/4" | 22861-0045 | 23252-0045 |
|                                                                                   | EB-45 1"   | 22929-0045 | 23358-0045 |

### With SharkBite® Double Unions & 60 psi Set Pressure

|                                                                                     |            |            |   |
|-------------------------------------------------------------------------------------|------------|------------|---|
|  | EB-45 3/4" | 22950-0060 | — |
|                                                                                     | EB-45 1"   | 22951-0060 | — |

## EB-45 Temporary Bypass Kit

Allows for connection to the water supply before pressure regulator installation. A time saving way to flush out all debris and particles from the plumbing system.

|                                                                                     |            |       |   |
|-------------------------------------------------------------------------------------|------------|-------|---|
|  | EB-45 3/4" | 22934 | — |
|-------------------------------------------------------------------------------------|------------|-------|---|

## SharkBite® Gauges

Use to measure or monitor water conditions in water distribution systems. Quick push-fit installation as temporary (reusable) or permanent device in copper, CTS CPVC and PEX plumbing systems.

### Pressure Gauges

|                                                                                     |                |       |   |
|-------------------------------------------------------------------------------------|----------------|-------|---|
|  | with 1/2" Tee  | 22770 | — |
|                                                                                     | with 3/4" Tee  | 22772 | — |
|                                                                                     | with 1" Tee    | 22774 | — |
|                                                                                     | 1/2" Tube Size | 22883 | — |
|                                                                                     | 1/2" Tube Size | 22885 | — |

## Temperature Gauges



|  | SIZE           | P/N   | P/N (Lead Free) |
|--|----------------|-------|-----------------|
|  | with 1/2" Tee  | 22771 | —               |
|  | with 3/4" Tee  | 22773 | —               |
|  | with 1" Tee    | 22775 | —               |
|  | 1/2" Tube Size | 22884 | —               |
|  | 1/2" Tube Size | 22886 | —               |

## SharkBite® Thermostatic Valves

Direct or double union SharkBite® push-fit connectors provide a simplified, time and labor saving installation. Heatguard® valves deliver water at a safe 120°F (49°C) or lower from all outlets, while allowing the 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. And the higher tank temperature means hot water demands can be satisfied longer. Every valve is tested for performance and includes a unique adjuster tool that minimizes tampering with the valve setting. Rugged, simple construction incorporates a precision engineered polymer piston and the latest in thermostatic technology.

### Thermostatic Valves with Integral Connectors



|                                                                                    |              |            |   |
|------------------------------------------------------------------------------------|--------------|------------|---|
|  | HG-110D 1/2" | 24104-0000 | — |
|                                                                                    | HG-110D 3/4" | 24105-0000 | — |

### Thermostatic Valves with SharkBite® Unions



|                                                                                     |              |            |   |
|-------------------------------------------------------------------------------------|--------------|------------|---|
|  | HG-115H 3/4" | 24326-0000 | — |
|                                                                                     | HG-115D 3/4" | 24328-0000 | — |

### With SharkBite® Unions and Check Valves

|                                                                                     |              |            |   |
|-------------------------------------------------------------------------------------|--------------|------------|---|
|  | HG-115H 3/4" | 24327-0000 | — |
|                                                                                     | HG-115D 3/4" | 24329-0000 | — |

## Thermostatic Valve Retrofit Kits

Includes 3 CTS tailpieces. Use with SharkBite® push-fit fittings to easily connect a Heatguard valve to 1/2" and 3/4" pipe. Heatguard 110-D with gaskets purchased separately.



|                                                                                     |      |            |   |
|-------------------------------------------------------------------------------------|------|------------|---|
|  | 1/2" | 24311-0000 | — |
|                                                                                     | 3/4" | 24312-0000 | — |



## THE SHARKBITE® CONNECTION SYSTEM

### SharkBite® PEX Tubing

SharkBite® PEX tubing is a cross-linked polyethylene tubing for a wide range of residential and commercial plumbing applications. Manufactured without an oxygen barrier for potable water systems and with an oxygen barrier for radiant floor and hydronic heating applications. The oxygen diffusion barrier applied to the exterior limits oxygen permeation through the tubing wall in hydronic heating applications which prevents corrosion of ferrous metal parts in the heating system. A repeating SharkBite® imprint pattern provides a visual aid to determine if the tube has been inserted all the way into the SharkBite® Push-Fit Fitting. This feature only works if the tubing is cut between the SharkBite® imprint pattern.



**Approvals:** The SharkBite® tubing with and without oxygen barrier is approved for use in all model codes in the US and Canada for use in hydronic and potable water systems and is certified to the following standards: NSF 14/61, NSF P171, ASTM F 876, ASTM F 877, CSA B137.5 and AWWA C904.

### PEX With Oxygen Barrier - Straight Lengths and Coils

Use for radiant floor and hydronic heating applications. The oxygen diffusion barrier is applied to the exterior and limits oxygen permeation through the tubing wall in hydronic heating applications. This prevents corrosion of ferrous metal parts in the heating system.

| DIAMETER                 | LENGTH       | BLACK TEXT |
|--------------------------|--------------|------------|
| 3/8" PEX<br>Orange Color | 100' coil    | U855O100   |
|                          | 300' coil    | U855O300   |
|                          | 500' coil    | U855O500   |
| 1/2" PEX<br>Orange Color | 20' straight | U860O20    |
|                          | 100' coil    | U860O100   |
|                          | 300' coil    | U860O300   |
|                          | 500' coil    | U860O500   |
|                          | 1000' coil   | U860O1000  |
| 5/8" PEX<br>Orange Color | 300' coil    | U865O300   |
| 3/4" PEX<br>Orange Color | 20' straight | U870O20    |
|                          | 100' coil    | U870O100   |
|                          | 300' coil    | U870O300   |
|                          | 500' coil    | U870O500   |
|                          | 1000' coil   | U870O1000  |
| 1" PEX<br>Orange Color   | 20' straight | U880O20    |
|                          | 100' coil    | U880O100   |
|                          | 300' coil    | U880O300   |
|                          | 500' coil    | U880O500   |

### PEX Without Oxygen Barrier - Straight Lengths and Coils

Use for potable water distribution and other water systems. Available in straight lengths and coils in pipe sizes ranging from 1/4" through 1" .

| DIAMETER                         | LENGTH      | GRAY    |
|----------------------------------|-------------|---------|
| 1/4" (3/8" OD) PEX<br>Gray Color | 5' straight | U850G5  |
|                                  | 50' coil    | U850G50 |

| DIAMETER                                 | LENGTH       | BLUE     | RED      | WHITE    |
|------------------------------------------|--------------|----------|----------|----------|
| 3/8" (1/2" OD) PEX<br>Blue, Red or White | 5' straight  | –        | –        | U855W5   |
|                                          | 10' straight | –        | –        | U855W10  |
|                                          | 50' coil     | –        | –        | U855W50  |
|                                          | 100' coil    | U855B100 | U855R100 | U855W100 |
| 1/2" PEX<br>Blue, Red or White           | 5' straight  | U860B5   | U860R5   | U860W5   |
|                                          | 10' straight | U860B10  | U860R10  | U860W10  |
|                                          | 20' straight | U860B20  | U860R20  | U860W20  |
|                                          | 25' coil     | –        | –        | U860W25  |
|                                          | 50' coil     | –        | –        | U860W50  |
|                                          | 100' coil    | U860B100 | U860R100 | U860W100 |
|                                          | 300' coil    | U860B300 | U860R300 | U860W300 |
|                                          | 500' coil    | U860B500 | U860R500 | U860W500 |
| 3/4" PEX<br>Blue, Red or White           | 5' straight  | U870B5   | U870R5   | U870W5   |
|                                          | 10' straight | U870B10  | U870R10  | U870W10  |
|                                          | 20' straight | U870B20  | U870R20  | U870W20  |
|                                          | 25' coil     | –        | –        | U870W25  |
|                                          | 100' coil    | U870B100 | U870R100 | U870W100 |
|                                          | 300' coil    | U870B300 | U870R300 | U870W300 |
|                                          | 500' coil    | U870B500 | U870R500 | U870W500 |
| 1" PEX<br>Blue, Red or White             | 5' straight  | U880B5   | U880R5   | U880W5   |
|                                          | 10' straight | U880B10  | U880R10  | U880W10  |
|                                          | 20' straight | U880B20  | U880R20  | U880W20  |
|                                          | 100' coil    | U880B100 | U880R100 | U880W100 |
|                                          | 300' coil    | U880B300 | U880R300 | U880W300 |
|                                          | 500' coil    | U880B500 | U880R500 | U880W500 |

### SharkBite® Fittings/Tube Size Compatibility

| Nominal Size of Fitting | Nominal Size of Tubing | Tubing OD Size | Tubing ID Size |
|-------------------------|------------------------|----------------|----------------|
| 1/4"                    | 1/4" CTS               | 3/8"           | 0.305"         |
| 3/8"                    | 3/8" CTS               | 1/2"           | 0.350"         |
| 1/2"                    | 1/2" CTS               | 5/8"           | 0.475"         |
| 5/8"                    | 5/8" CTS               | 3/4"           | 0.652"         |
| 3/4"                    | 3/4" CTS               | 7/8"           | 0.671"         |
| 1"                      | 1" CTS                 | 1"             | 0.885"         |
| 1/4" compression        | 1/4" ACR               | 1/4"           | 0.190"         |
| 3/8" compression        | 3/8" ACR               | 3/8"           | 0.311"         |





## SharkBite® PEX/Barb Products

The PEX/Barb Connection System includes fittings, manifolds, valves, clamp rings, crimp rings and tools. Plus SharkBite PEX tubing in sizes and lengths for any job.

## Couplings

### Straight Couplings

|                                                                                   | SIZE        | P/N   | P/N (Lead Free) |
|-----------------------------------------------------------------------------------|-------------|-------|-----------------|
|  | 3/8" X 3/8" | UC006 | UC006LF         |
|                                                                                   | 1/2" X 1/2" | UC008 | UC008LF         |
|                                                                                   | 3/4" X 3/4" | UC016 | UC016LF         |
|                                                                                   | 1" X 1"     | UC020 | UC020LF         |

### Reducing Couplings

|             |       |         |
|-------------|-------|---------|
| 3/8" X 1/2" | UC009 | UC009LF |
| 1/2" X 3/4" | UC058 | UC058LF |
| 3/4" X 1"   | UC060 | UC060LF |

## Adapters

### Threaded Adapters

|                                                                                     |                  |       |         |
|-------------------------------------------------------------------------------------|------------------|-------|---------|
|  | 3/8" X 1/2" MNPT | UC118 | UC118LF |
|                                                                                     | 1/2" X 3/4" FNPT | UC068 | UC068LF |
|                                                                                     | 1/2" X 1/2" FNPT | UC072 | UC072LF |
|                                                                                     | 1/2" X 1/2" MNPT | UC120 | UC120LF |
|                                                                                     | 1/2" X 3/4" MNPT | UC116 | UC116LF |
|                                                                                     | 3/4" X 3/4" FNPT | UC088 | UC088LF |
|                                                                                     | 3/4" X 3/4" MNPT | UC134 | UC134LF |
|                                                                                     | 3/4" X 1/2" MNPT | UC138 | UC138LF |
|                                                                                     | 3/4" X 1" MNPT   | UC139 | UC139LF |
|                                                                                     | 1" X 1" FNPT     | UC094 | UC094LF |
|                                                                                     | 1" X 1" MNPT     | UC140 | UC140LF |
|                                                                                     | 1" X 3/4" MNPT   | UC142 | UC142LF |

### Sweat Adapters

|                                                                                     |                    |       |         |
|-------------------------------------------------------------------------------------|--------------------|-------|---------|
|  | 3/8" X 1/2" Male   | UC593 | UC593LF |
|                                                                                     | 1/2" X 1/2" Female | UC600 | UC600LF |
|                                                                                     | 1/2" X 1/2" Male   | UC607 | UC607LF |
|                                                                                     | 3/4" X 3/4" Female | UC606 | UC606LF |
|                                                                                     | 3/4" X 3/4" Male   | UC608 | UC608LF |
|                                                                                     | 1" X 1" Male       | UC609 | UC609LF |

### Polybutylene Adapters (with PB Crimp Ring)

|                                                                                     |                |        |          |
|-------------------------------------------------------------------------------------|----------------|--------|----------|
|  | 3/8" X 3/8" PB | UC4006 | UC4006LF |
|                                                                                     | 1/2" X 1/2" PB | UC4008 | UC4008LF |
|                                                                                     | 3/4" X 3/4" PB | UC4016 | UC4016LF |

## Tees



| SIZE               | P/N   | P/N (Lead Free) |
|--------------------|-------|-----------------|
| 3/8" X 3/8" X 3/8" | UC360 | UC360LF         |
| 1/2" X 1/2" X 1/2" | UC362 | UC362LF         |
| 3/4" X 3/4" X 3/4" | UC370 | UC370LF         |
| 1" X 1" X 1"       | UC374 | UC374LF         |

### Bullnose Tee

|                    |       |         |
|--------------------|-------|---------|
| 1/2" X 1/2" X 3/4" | UC408 | UC408LF |
| 3/4" X 3/4" X 1"   | UC413 | UC413LF |

### Reducing Tees



|                    |       |         |
|--------------------|-------|---------|
| 3/8" X 3/8" X 1/2" | UC364 | UC364LF |
| 1/2" X 1/2" X 3/8" | UC363 | UC363LF |
| 1/2" X 3/8" X 1/2" | UC434 | —       |
| 1/2" X 3/8" X 3/8" | UC452 | UC452LF |
| 3/4" X 3/4" X 1/2" | UC412 | UC412LF |
| 3/4" X 3/4" X 3/8" | UC417 | —       |
| 3/4" X 1/2" X 3/4" | UC444 | UC444LF |
| 3/4" X 1/2" X 1/2" | UC454 | UC454LF |
| 1" X 3/4" X 3/4"   | UC414 | UC414LF |
| 1" X 1" X 1/2"     | UC415 | UC415LF |
| 1" X 1" X 3/4"     | UC416 | UC416LF |
| 1" X 3/4" X 1"     | UC418 | —       |

## Elbows



|                  |       |         |
|------------------|-------|---------|
| 3/8" X 3/8"      | UC246 | UC246LF |
| 1/2" X 1/2"      | UC248 | UC248LF |
| 3/4" X 3/4"      | UC256 | UC256LF |
| 1" X 1"          | UC260 | UC260LF |
| 1/2" X 1/2" MNPT | UC280 | UC280LF |

### Reducing Elbow



|             |       |         |
|-------------|-------|---------|
| 1/2" X 3/8" | UC272 | UC272LF |
| 3/4" X 1/2" | UC274 | UC274LF |

### Drop Ear Elbow



|                  |       |         |
|------------------|-------|---------|
| 1/2" X 1/2" FNPT | UC334 | UC334LF |
| 3/4" X 3/4" FNPT | UC340 | UC340LF |
| 3/4" X 1/2" FNPT | UC342 | UC342LF |

### Adapter Elbows



|                     |       |         |
|---------------------|-------|---------|
| 1/2" X 3/4" MNPT    | UC278 | —       |
| 3/4" X 3/4" MNPT    | UC286 | —       |
| 3/4" X 3/4" F sweat | UC626 | UC626LF |
| 3/4" X 3/4" M sweat | UC628 | UC628LF |



## THE SHARKBITE® CONNECTION SYSTEM

### Swivel Fittings

#### Swivel Adapters



| SIZE             | P/N    | P/N (Lead Free) |
|------------------|--------|-----------------|
| 3/8" X 1/2" FNPT | UC527  | UC527LF         |
| 1/2" X 1/2" FNPT | UC526  | UC526LF         |
| 1/2" X 3/4" FNPT | UC534  | UC534LF         |
| 3/4" X 3/4" FNPT | UC530  | UC530LF         |
| 3/4" X 1" FNPT   | UC529* | UC529LF*        |
| 1" X 1" FNPT     | UC594  | UC594LF         |

#### Swivel Elbows



|                  |       |         |
|------------------|-------|---------|
| 3/8" X 1/2" FNPT | UC531 | UC531LF |
| 1/2" X 1/2" FNPT | UC532 | UC532LF |

#### Swivel Toilet Connectors



|                      |        |          |
|----------------------|--------|----------|
| 1/2" X 7/8" straight | UC528* | UC528LF* |
| 3/8" X 7/8" elbow    | 23068  | —        |
| 1/2" X 7/8" elbow    | 23067  | —        |

### PEX Chrome Plated Stops

#### 1/4 Turn Angle Stops



|                  |       |         |
|------------------|-------|---------|
| 1/2" X 1/4" comp | 23056 | —       |
| 1/2" X 3/8" comp | 23058 | 23058LF |

#### 1/4 Turn Straight Stop



|                  |        |          |
|------------------|--------|----------|
| 3/8" X 3/8"      | 23382* | 23382LF* |
| 1/2" X 3/8" comp | 23057  | 23057LF  |

#### 1/4 Turn Tee Stop



|                                 |       |   |
|---------------------------------|-------|---|
| 1/2" X 3/8" comp<br>X 3/8" comp | 23066 | — |
|---------------------------------|-------|---|

#### Angle Stops



|                  |       |         |
|------------------|-------|---------|
| 1/2" X 3/8" comp | 23060 | —       |
| 1/2" X 3/8" MHT  | 23064 | 23064LF |

#### Straight Stops



| SIZE             | P/N   | P/N (Lead Free) |
|------------------|-------|-----------------|
| 1/2" X 3/8" comp | 23059 | —               |
| 1/2" X 1/2" MPT  | 23061 | 23061LF         |
| 1/2" X 3/8"      | 23062 | 23062LF         |
| 1/2" X 1/2"      | 23063 | 23063LF         |

### Plugs



|      |       |         |
|------|-------|---------|
| 3/8" | UC512 | UC512LF |
| 1/2" | UC514 | UC514LF |
| 3/4" | UC518 | UC518LF |
| 1"   | UC520 | UC520LF |

### Copper Stubout Elbow



|                         |       |   |
|-------------------------|-------|---|
| 1/2" X Closed (4" X 8") | 22791 | — |
| 3/8" X 1/2" (4" X 4")   | 23069 | — |
| 1/2" X 1/2" (4" X 4")   | 23070 | — |

All copper stubout elbows are LEAD FREE.

### Copper Manifolds with Barb Branches



1" Trunk with 3/4" barb inlets & outlets and  
1/2" barb ports (2" on center)

|               |       |   |
|---------------|-------|---|
| 3 port closed | 22783 | — |
| 3 port open   | 22784 | — |
| 4 port closed | 22785 | — |
| 4 port open   | 22786 | — |
| 6 port closed | 22787 | — |
| 6 port open   | 22788 | — |
| 8 port closed | 22789 | — |
| 8 port open   | 22790 | — |

All copper manifolds with barb branches are LEAD FREE.

### Polymer Bend Support for PEX pipe



|                   |       |   |
|-------------------|-------|---|
| 1/2" with bracket | 23050 | — |
| 3/4"              | 23051 | — |

### Metal Support for PEX pipe



|      |       |   |
|------|-------|---|
| 1/2" | 23053 | — |
| 3/4" | 23054 | — |

### Polymer Insulated Suspension Clamp for PEX



|               |          |   |
|---------------|----------|---|
| 1/2" CTS, F-5 | 23071A10 | — |
| 3/4" CTS, F-5 | 23072A10 | — |
| 1" CTS, F-5   | 23073A10 | — |

### Polymer Pipe Insulator for PEX



| SIZE          | P/N      | P/N (Lead Free) |
|---------------|----------|-----------------|
| 1/2" CTS, F-5 | 23074A10 | —               |
| 3/4" CTS, F-5 | 23075A10 | —               |
| 1" CTS, F-5   | 23076A10 | —               |

Available: \*September 2010

## LIGHTNING FAST. WON'T LET GO.

### Clamp Rings



|      |       |   |
|------|-------|---|
| 1/4" | —     | — |
| 3/8" | UC952 | — |
| 1/2" | UC953 | — |
| 5/8" | UC954 | — |
| 3/4" | UC955 | — |
| 1"   | UC956 | — |

### PEX Clamp Tool



For use with SharkBite® Barb 3/8", 1/2", 3/4" and 1" fittings and SharkBite® PEX tubing.

|                    |       |   |
|--------------------|-------|---|
| One-hand Operation | UC961 | — |
| Standard Handles   | 23081 | — |

### Crimp Rings



|      |       |   |
|------|-------|---|
| 3/8" | 23101 | — |
| 1/2" | 23102 | — |
| 3/4" | 23103 | — |
| 1"   | 23104 | — |

### PEX Crimp Ring Tool Kit



Includes Crimp Tool, jaws for 3/8", 1/2", 5/8", 3/4" and 1" size crimp rings and SharkBite Barb fittings. And a go-no-go gauge, adjustment tools and case.

|   |       |   |
|---|-------|---|
| — | 23100 | — |
|---|-------|---|

### PEX Crimp Tools



|                   |       |   |
|-------------------|-------|---|
| 3/8"              | 23077 | — |
| 1/2"              | 23078 | — |
| 3/4"              | 23079 | — |
| 1/2" & 3/4"       | 23251 | — |
| 3/8", 1/2" & 3/4" | 23383 | — |

Note: 23383 Combo Crimp Tool requires using Vise Grips® to close the jaws.

### Crimp Ring Gauge



|                   |       |   |
|-------------------|-------|---|
| 3/8", 1/2" & 3/4" | 23080 | — |
|-------------------|-------|---|

### Crimp Ring Removal Tool



Use to remove 3/8", 1/2", 3/4" and 1" SharkBite® crimp rings.

| SIZE | P/N   | P/N (Lead Free) |
|------|-------|-----------------|
| —    | 23055 | —               |

### PEX Tubing Cutter



Use to cut 1/4", 3/8", 1/2", 3/4" and 1" SharkBite PEX tubing.

|   |      |   |
|---|------|---|
| — | U701 | — |
|---|------|---|

### Regulators with PEX/Barb Ends



|                |            |            |
|----------------|------------|------------|
| EB-25 3/4"     | 22865-0045 | —          |
| EB-25-400 3/4" | 22866-0045 | —          |
| EB-25 1"       | 22867-0045 | 23140-0045 |
| EB-25-400 1"   | 22868-0045 | —          |

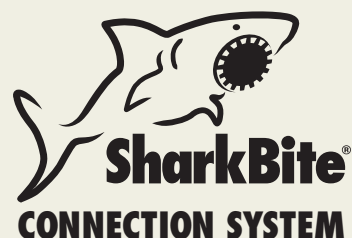
|            |            |   |
|------------|------------|---|
| EB-35 3/4" | 22364-0045 | — |
| EB-35 1"   | 22365-0045 | — |

|            |            |   |
|------------|------------|---|
| EB-45 3/4" | 22798-0045 | — |
| EB-45 1"   | 22799-0045 | — |

### Ball Valves with PEX/Barb Ends



|      |       |         |
|------|-------|---------|
| 1/2" | 22461 | 22461LF |
| 3/4" | 22462 | 22462LF |
| 1"   | 22463 | 22463LF |



1-877-700-4242

www.sharkbitepro.com



## CERTIFICATIONS

The **SharkBite®** push-fit fittings have been design certified and listed to ASSE 1061/NSF 61. The **SharkBite®** push-fit fittings are listed by IAPMO and are certified for potable and hydronic heating water distribution (note: Glycol mixture for hydronics is not to exceed 100% concentration). The **SharkBite®** push-fit fittings have been certified for underground applications and as a manufactured joint without access panels and they meet UPC, IPC and cUPC requirements. **Please consult with local plumbing codes concerning specific applications.**

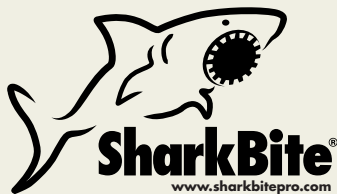
The **SharkBite®** tubing without oxygen barrier is approved for all model codes in the US and Canada for use in potable water systems and is certified to the following standards: NSF 14/61, NSF P171, ASTM F 876, ASTM F 877, CSA B137.5 and AWWA C904.

The **SharkBite®** tubing with oxygen barrier is approved for use in all model codes in the US and Canada for use in hydronic and potable water systems and is certified to the following standards: NSF 14/61, NSF P171, ASTM F 876, ASTM F 877, CSA B137.5 and AWWA C904.

**Note:** The **SharkBite®** push-fit fittings are not approved for use with chrome-plated pipe. SharkBite PB Couplings are designed to work with ASTM D3309 spec polybutylene, do not install onto damaged or decayed PB pipe.

| SharkBite® Fittings/Tube Size Compatibility |                        |                |                |
|---------------------------------------------|------------------------|----------------|----------------|
| Nominal Size of Fitting                     | Nominal Size of Tubing | Tubing OD Size | Tubing ID Size |
| 1/4"                                        | 1/4" CTS               | 3/8"           | 0.305"         |
| 3/8"                                        | 3/8" CTS               | 1/2"           | 0.350"         |
| 1/2"                                        | 1/2" CTS               | 5/8"           | 0.475"         |
| 5/8"                                        | 5/8" CTS               | 3/4"           | 0.652"         |
| 3/4"                                        | 3/4" CTS               | 7/8"           | 0.671"         |
| 1"                                          | 1" CTS                 | 1"             | 0.885"         |
| 1/4" compression                            | 1/4" ACR               | 1/4"           | 0.190"         |
| 3/8" compression                            | 3/8" ACR               | 3/8"           | 0.311"         |

**Note:** 1/4" push-fit connector ends require use of 3/8" OD CTS size PEX, CPVC or hard drawn Type K, L and M and annealed Type M copper complying with ASTM B 88. SharkBite® connector ends are not approved for use with chrome plated pipe. If it is necessary to use chrome plated tubing, the chrome finish should be completely removed from 1" of the tubing ends.



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Product details at [sharkbitepro.com](http://sharkbitepro.com)