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> Cash Acme SharkBite 3/4" Brass Push-to-Connect Ball Valve Model 22185-0000LFA Instruction Manual

## Cash Acme 22185-0000LFA

# Cash Acme SharkBite 3/4" Brass Push-to-Connect Ball Valve

MODEL: 22185-0000LFA - INSTRUCTION MANUAL

## 1. Introduction

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This manual provides essential information for the proper installation, operation, and maintenance of your Cash Acme SharkBite 3/4" Brass Push-to-Connect Ball Valve, Model 22185-0000LFA. Please read these instructions thoroughly before beginning any work to ensure safe and efficient use of the product.

The SharkBite push-to-connect ball valve is designed for use in residential and commercial plumbing applications, offering a quick and reliable connection without the need for soldering, clamps, unions, or glue. It is certified for potable water and radiant heating applications.

## 2. Safety Information

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Always observe the following safety precautions:

- **Depressurize System:** Before installing or removing the valve, ensure the water supply is turned off and the system is completely depressurized.
- **Wear Protective Gear:** Always wear appropriate personal protective equipment, including safety glasses and gloves, during installation.
- **Proper Tools:** Use only the recommended tools for installation and removal.
- **Lead Content:** This product is manufactured to include no more than 0.25% weighted average lead content on wetted surfaces, making it suitable for potable water applications.
- **Temperature and Pressure Limits:** Do not exceed the maximum operating temperature of 200°F (93°C) or maximum operating pressure of 200 PSI.

## 3. Product Features

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- **Push-to-Connect Design:** Provides a fast, easy, and reliable connection.
- **Versatile Compatibility:** Connects to copper, PEX, CPVC, and PE-RT pipes.
- **Durable Construction:** Made from 1-piece DZR brass for long-lasting performance.

- **Certifications:** UPC, IAPMO, and NSF-61 certified and approved.
- **Reusable:** Fittings can be removed and reused with a SharkBite disconnect clip (sold separately).
- **Full-Port Design:** Ensures maximum flow and minimal pressure drop.
- **Single Lever Control:** Easy operation for water supply shut-off.

## 4. Specifications

<b>Model Number</b>	22185-0000LFA
<b>Size</b>	3/4 inch
<b>Material</b>	DZR Brass
<b>Connection Type</b>	Push-to-Connect
<b>Compatible Pipe Materials</b>	Copper, PEX, CPVC, PE-RT
<b>Maximum Operating Pressure</b>	200 PSI (13.79 bar)
<b>Maximum Operating Temperature</b>	200°F (93°C)
<b>Certifications</b>	UPC, IAPMO, NSF-61
<b>Dimensions (L x W x H)</b>	Approximately 10.8 x 4.6 x 2.5 inches
<b>Item Weight</b>	Approximately 11.2 ounces

## 5. Installation

Follow these steps for proper installation of the SharkBite ball valve:

1. **Prepare Pipe:** Cut the pipe squarely, ensuring there are no burrs or sharp edges. Use a deburring tool for best results. The pipe must be clean and free of scratches or debris.
2. **Mark Insertion Depth:** Measure and mark the correct insertion depth on the pipe. For 3/4" pipe, the insertion depth is approximately 1.06 inches (27mm). This ensures the pipe fully engages with the fitting's O-ring and grab ring.
3. **Insert Pipe:** Push the pipe firmly into the SharkBite fitting until it reaches the depth mark. You will feel a slight resistance as the pipe passes through the grab ring and then the O-ring. Ensure the pipe is fully seated.
4. **Verify Connection:** Once inserted, try to pull the pipe out of the fitting. If the connection is secure, the pipe will not easily dislodge.
5. **Test System:** Slowly turn on the water supply and check for any leaks at the connection points.

**Note:** For PEX and PE-RT pipe installations, a pipe stiffener must be used. Ensure the pipe stiffener is fully inserted into the pipe before connecting to the SharkBite fitting.



Image: Cash Acme SharkBite 3/4" Brass Push-to-Connect Ball Valve. This image displays the brass valve with its distinctive push-to-connect ends, and a blue handle for operation.

## 6. Operation

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The SharkBite ball valve features a simple quarter-turn operation:

- **Open Position:** When the handle is aligned with the pipe (parallel to the flow), the valve is open, allowing water to flow through.
- **Closed Position:** When the handle is perpendicular to the pipe (across the flow), the valve is closed, stopping water flow.

Always turn the handle completely to the desired position to ensure full open or full closed status.

## 7. Maintenance

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The Cash Acme SharkBite ball valve is designed for minimal maintenance. Regular checks include:

- **Leak Inspection:** Periodically inspect the valve and connections for any signs of leaks. Address any leaks immediately.
- **Operation Check:** Occasionally operate the valve (open and close) to ensure smooth functionality.

- **Cleaning:** Clean the exterior of the valve with a mild detergent and water if necessary. Do not use harsh chemicals that could damage the brass or seals.

No internal lubrication or adjustment is typically required for the lifespan of the valve under normal operating conditions.

## 8. Troubleshooting

Problem	Possible Cause	Solution
Leak at connection point	<ul style="list-style-type: none"> <li>• Pipe not fully inserted</li> <li>• Damaged O-ring or grab ring</li> <li>• Scratched or improperly prepared pipe</li> <li>• Incorrect pipe size or material</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure pipe is fully inserted to the depth mark.</li> <li>• Remove fitting, inspect O-ring/grab ring for damage. Replace fitting if damaged.</li> <li>• Re-cut and deburr pipe, ensuring a clean, smooth surface.</li> <li>• Verify pipe compatibility and size.</li> </ul>
Valve handle is stiff or difficult to turn	<ul style="list-style-type: none"> <li>• Mineral buildup</li> <li>• Infrequent use</li> </ul>	<ul style="list-style-type: none"> <li>• Operate the valve several times to free up internal components.</li> <li>• If problem persists, consider replacement.</li> </ul>
Water flow is restricted	<ul style="list-style-type: none"> <li>• Valve not fully open</li> <li>• Debris in the pipeline</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure the handle is fully parallel to the pipe.</li> <li>• Flush the system to remove any debris.</li> </ul>

## 9. Warranty and Support

For specific warranty information and technical support regarding your Cash Acme SharkBite 3/4" Brass Push-to-Connect Ball Valve, Model 22185-0000LFA, please refer to the documentation provided with your purchase or visit the official Cash Acme website. You may also contact Cash Acme customer service directly for assistance.

**Contact Information:** Please refer to the manufacturer's official website or product packaging for the most current contact details.