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› SharkBite Max 1 Inch Check Valve Instruction Manual

SharkBite UR2020

SharkBite Max 1 Inch Check Valve

INSTRUCTION MANUAL

Product Overview

The SharkBite Max 1 Inch Check Valve is a push-to-connect brass plumbing fitting designed to simplify your plumbing projects. It effectively prevents the reverse flow of water in various piping systems.

This valve is compatible with PEX, copper, CPVC, PE-RT, and SDR-9 HDPE pipes, allowing for versatile connections without the need for soldering, glue, or specialized tools. Its robust construction ensures durability and reliable performance.





Image: A pack of three SharkBite Max 1 Inch Check Valves, showcasing their brass and stainless steel construction.

Key Features

- **Fast and Easy Installation:** Push-to-connect design eliminates the need for soldering, glue, or crimping tools.
- **Versatile Compatibility:** Connects to PEX, copper, CPVC, PE-RT, and SDR-9 HDPE pipes.
- **No PEX Tube Liner Required:** Ensures no flow restriction when used with Copper/CPVC.
- **Strong and Durable:** Features a reinforced stainless steel collar and lead-free DZR brass body.
- **High Performance:** Rated to 200 degrees F and 250 PSI, with 2K maximum burst pressure.
- **Approved Applications:** Suitable for wet lines, underground, and behind-the-wall installations (wrapping required for burying underground).



Image: Infographic highlighting the SharkBite Max's performance, including 2x burst pressure, 250 PSI rating, and 1/2 insertion effort, emphasizing no special tools are required.

Setup and Installation

1. **Prepare the Pipe:** Ensure the pipe end is clean, free of burrs, and cut squarely.
2. **Mark the Insertion Depth:** For proper connection, mark the pipe to indicate the correct insertion depth. Refer to the product packaging or SharkBite's official resources for specific depth requirements for your pipe size.
3. **Push to Connect:** Firmly push the pipe into the check valve until it reaches the marked insertion depth. You will feel a slight resistance as the pipe passes the O-ring and then a firm stop as it engages with the stainless steel teeth.
4. **Verify Connection:** Once inserted, pull back on the pipe to ensure it is securely seated. A properly installed connection will not pull out.
5. **System Test:** After installation, slowly pressurize the plumbing system and check for any leaks.

The SharkBite Max check valve can be installed in wet lines, making repairs easier. For underground or behind-the-wall applications, ensure the fitting is properly wrapped as required by local codes to protect it from environmental factors.



Image: A SharkBite Max check valve shown installed on a blue PEX pipe, demonstrating a secure connection.

Operating Principles

The SharkBite Max Check Valve is a one-way valve designed to allow fluid flow in only one direction, preventing backflow. It utilizes a spring-loaded mechanism that opens when pressure from the intended flow direction exceeds the spring's resistance and closes when flow stops or reverses.

This valve is ideal for applications where preventing reverse water flow is critical, such as in hot water recirculation systems or to protect pumps from back-siphoning.



Image: An exploded view diagram of the SharkBite Max fitting, detailing its components: DZR Brass Body, EPDM Rubber O-Ring, Stainless Steel Teeth, Release Collar, and Stainless Steel Collar, illustrating how they work together for a secure, leak-proof connection.

Maintenance

SharkBite Max fittings are designed for long-term, maintenance-free operation once properly installed. The lead-free DZR brass construction and reinforced stainless steel components ensure corrosion resistance and durability.

If a fitting needs to be removed or adjusted, a SharkBite disconnect clip or tool is required. Insert the disconnect clip over the pipe and against the fitting's release collar, then push the collar towards the fitting body while pulling the pipe out. This allows for easy disassembly without damaging the pipe or fitting.

Troubleshooting

Problem	Possible Cause	Solution
Leak at connection point	Pipe not fully inserted; pipe end not clean or burr-free; damaged O-ring.	Ensure pipe is fully inserted to the correct depth. Re-cut and clean pipe end if necessary. Inspect O-ring for damage; replace fitting if O-ring is compromised.
No flow or restricted flow	Valve installed in reverse direction; debris inside valve; spring mechanism stuck.	Verify the flow arrow on the valve aligns with the intended direction of water flow. Disassemble and inspect for debris. If the spring is stuck, the valve may need replacement.
Difficulty removing fitting	Incorrect use of disconnect tool; insufficient pressure on release collar.	Ensure the SharkBite disconnect clip or tool is fully engaged and pressing the release collar evenly. Apply firm, steady pressure.

Specifications

Attribute	Detail
Model Number	UR2020

Attribute	Detail
Size	1 inch
Material	Lead-Free DZR Brass, Stainless Steel
Color	Brass
Connector Type	Push-to-Connect Coupling
Maximum Temperature	200°F (93°C)
Maximum Pressure	250 PSI
Item Dimensions (L x W x H)	4.33 x 1.61 x 1.61 inches
Item Weight	0.54 Pounds (approx. 8.6 ounces)
Manufacturer	Reliance Worldwide Corporation
Certifications	ASSE 1061, CSA B125.3, NSF/ANSI 14, NSF/ANSI/CAN 61, CAN/ULC S101, NSF/ANSI/CAN 372, ASTM E84, CAN/ULC S102.2, UL 263, ASTM E119

Warranty Information

The SharkBite Max Check Valve is backed by a **25-year warranty** when used with PEX, Copper, CPVC, and PE-RT pipe. This warranty covers defects in materials and workmanship under normal use and service conditions. For full warranty details and terms, please refer to the official SharkBite website or contact customer support.

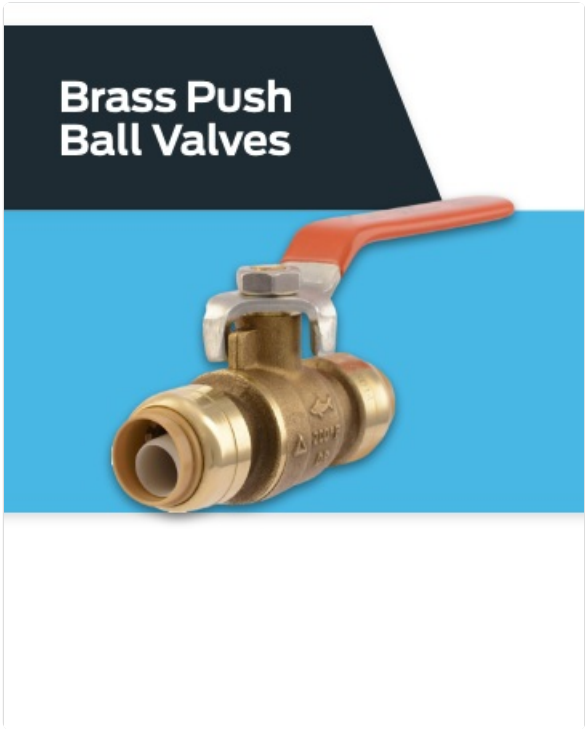


Image: An image highlighting the 25-year warranty for SharkBite fittings when used with compatible pipe types.

Support and Contact

For additional support, technical assistance, or to view more products, please visit the official SharkBite website or their brand store on Amazon.

SharkBite Official Store: [Visit Store](#)

For specific inquiries, please refer to the contact information provided on the official SharkBite website.

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question