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BrassCraft G2CR39X

BrassCraft G2CR39X Angle Shut-Off Valve User Manual

Model: G2CR39X

1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of your BrassCraft G2CR39X Angle Shut-Off Valve. Please read this manual thoroughly before beginning installation or use to ensure safe and efficient operation. Retain this manual for future reference.

2. SAFETY INFORMATION

- Always turn off the main water supply before attempting any plumbing work.
- Wear appropriate personal protective equipment, such as safety glasses and gloves.
- Ensure all connections are secure to prevent leaks.
- If you are unsure about any step, consult a qualified plumber.
- This valve is designed for water supply lines only. Do not use for gas or other applications.

3. PRODUCT OVERVIEW

The BrassCraft G2CR39X is a 1/4 turn angle shut-off valve designed for controlling water flow to fixtures such as faucets and toilets. It features a chrome exterior finish and compression fittings for both inlet and outlet connections, ensuring a secure and leak-free installation. This model is lead-free compliant, meeting NSF/ANSI 372 and NSF/ANSI 61 standards.



Figure 1: BrassCraft G2CR39X Angle Shut-Off Valve. This image shows the chrome-finished angle valve with its compression fittings, ready for installation in a water supply line.

4. SPECIFICATIONS

Feature	Detail
Model Number	G2CR39X
Brand	BrassCraft
Material	Lead-Free Compliant Brass
Exterior Finish	Chrome
Inlet Connection Size	0.5 Inches (5/8" OD Compression)
Inlet Connection Type	Compression
Outlet Connection Size	0.63 Inches (1/2" OD Compression)
Outlet Connection Type	Compression
Number of Ports	2
Valve Type	1/4 Turn Angle Shut-Off
Dimensions (L x W x H)	6.5 x 3.9 x 3.9 inches
Item Weight	1.5 pounds
Compliance	NSF/ANSI 372, NSF/ANSI 61

5. INSTALLATION (SETUP)

5.1 Tools Required

- Adjustable wrench or two wrenches (one for holding, one for tightening)
- Pipe cutter (if cutting existing pipe)
- Bucket or towel for water drainage

5.2 Pre-Installation Steps

1. **Turn off Water Supply:** Locate the main water shut-off valve for your home or the specific area you are working on and turn it off completely.
2. **Drain Water:** Open the nearest faucet to drain any remaining water from the pipes.
3. **Prepare Pipe:** If replacing an old valve, remove it. Ensure the end of the pipe where the new valve will be installed is clean, smooth, and free of burrs.

5.3 Valve Installation

1. **Assemble Compression Nut and Sleeve:** Slide the compression nut, followed by the compression sleeve (ferrule), onto the pipe end. Ensure the tapered end of the sleeve faces the valve body.
2. **Insert Pipe into Valve:** Insert the pipe end fully into the valve body's inlet port.
3. **Tighten Compression Nut:** Hand-tighten the compression nut onto the valve body. Then, using an adjustable wrench, tighten the nut an additional 1/2 to 3/4 turn. *Do not overtighten*, as this can damage the compression sleeve and cause leaks.
4. **Connect Supply Line:** Connect the flexible supply line from your fixture (e.g., faucet, toilet) to the outlet port of the shut-off valve. Hand-tighten the nut, then use a wrench to tighten an additional 1/4 to 1/2 turn.

6. OPERATION

The BrassCraft G2CR39X is a 1/4 turn valve, meaning it requires only a quarter turn of the handle to fully open or close the water flow.

- **To Open the Valve:** Turn the handle 90 degrees (1/4 turn) so it is parallel with the water pipe.
- **To Close the Valve:** Turn the handle 90 degrees (1/4 turn) so it is perpendicular to the water pipe.

After installation, slowly turn on the main water supply and check for any leaks at all connections. If leaks occur, gently tighten the compression nuts further until the leak stops.

7. MAINTENANCE

- **Regular Inspection:** Periodically inspect the valve and connections for any signs of leaks, corrosion, or damage.
- **Operation Check:** Operate the valve (open and close) at least once a year to ensure it functions smoothly and to prevent mineral buildup from seizing the mechanism.
- **Cleaning:** Clean the exterior chrome finish with a soft cloth and mild soap and water. Avoid abrasive cleaners that can damage the finish.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Leak at Compression Nut	Nut not tight enough, damaged compression sleeve, or improper pipe preparation.	Gently tighten the compression nut. If the leak persists, turn off water, disassemble, inspect sleeve for damage, and ensure pipe end is smooth. Replace sleeve if necessary.

No Water Flow	Valve not fully open, main water supply off, or blockage in the line.	Ensure the valve handle is parallel to the pipe. Check if the main water supply is on. If still no flow, consult a plumber for potential line blockages.
Valve Handle Stiff	Mineral buildup or lack of use.	Regularly operate the valve to prevent stiffness. If already stiff, gentle force may be applied, but do not force excessively to avoid damage. Replacement may be necessary if it remains seized.

9. WARRANTY AND SUPPORT

BrassCraft Manufacturing Company stands behind its products. For specific warranty information, please refer to the documentation included with your purchase or visit the official BrassCraft website. If you require technical assistance or have questions regarding your G2CR39X valve, please contact BrassCraft customer support directly.

BrassCraft Official Website: www.brasscraft.com