

Sioux Chief 660-GTC1

Sioux Chief 660-GTC1 Mini-Rester Water Hammer Arrester Instruction Manual

INTRODUCTION

The Sioux Chief 660-GTC1 Mini-Rester is a piston-type water hammer arrester designed to mitigate the effects of water hammer in plumbing systems. Water hammer occurs when a sudden change in water flow, often caused by quick-closing valves or faucets, creates a pressure surge that can result in loud noises and potential damage to pipes and fixtures. This arrester is engineered to absorb these pressure surges, providing a quieter and more stable plumbing system.

This manual provides essential information for the proper installation, operation, and maintenance of your Sioux Chief 660-GTC1 Mini-Rester. Please read these instructions thoroughly before installation and keep them for future reference.

PRODUCT OVERVIEW

The 660-GTC1 Mini-Rester is a compact, piston-type device that utilizes a sealed air chamber to cushion the shock waves generated by water hammer. Its robust copper construction ensures durability and compatibility with various plumbing systems.



Image: Sioux Chief 660-GTC1 Mini-Rester Water Hammer Arrester. The image displays the arrester, which is a T-shaped brass fitting with a copper cylinder extending downwards. Dimensions are indicated, showing a total height of approximately 4.4 inches (11 cm).

Key Features:

- **Piston-Type Design:** Utilizes a sealed air chamber for effective shock absorption.
- **Durable Construction:** Made from copper for longevity and corrosion resistance.
- **Versatile Installation:** Designed for installation on supply lines to quick-closing valves and faucets.
- **No Access Panel Required:** Approved for installation without the need for an access panel.
- **Suitable for Hot and Cold Lines:** Can be installed on both hot and cold water supply lines.

SETUP AND INSTALLATION

Proper installation is crucial for the effective operation of the water hammer arrester. It should be installed as close as possible to the quick-closing valve or faucet causing the water hammer.

General Installation Guidelines:

1. **Identify the Source:** Determine which fixture or appliance is causing the water hammer. This is typically a washing machine, dishwasher, toilet, or quick-closing faucet.
2. **Shut Off Water Supply:** Turn off the main water supply to the building or the specific area where the

installation will occur.

3. **Drain Lines:** Open nearby faucets to relieve pressure and drain water from the lines.
4. **Select Installation Point:** Install the arrester on the supply line(s) leading to the problematic fixture. For washing machines or dishwashers, install on both hot and cold lines. For toilets or single-supply faucets, install on the relevant cold or hot line.
5. **Connect the Arrester:** The 660-GTC1 model typically features a sweat connection. Ensure proper soldering techniques are used for a secure, leak-free connection. For other connection types in the 660-GT series, such as compression, MIP thread, CPVC solvent weld, or PEX, follow the specific connection method's best practices.
6. **Restore Water Supply:** Slowly turn the main water supply back on.
7. **Check for Leaks:** Inspect all connections for any signs of leaks.
8. **Test Operation:** Operate the quick-closing valve or faucet several times to confirm that the water hammer has been eliminated or significantly reduced.

Note: Always consult local plumbing codes and regulations before installation. If you are unsure about any step, it is recommended to consult a qualified plumber.

OPERATING INSTRUCTIONS

The Sioux Chief 660-GTC1 Mini-Rester operates passively and requires no user interaction once installed. It functions by absorbing the kinetic energy of sudden water flow stoppages, preventing the shock waves that cause water hammer. The internal piston and air chamber automatically adjust to pressure changes within the plumbing system.

Ensure that the arrester is installed correctly and remains free from physical damage. Its operation is continuous and automatic as long as the internal air charge is maintained.

MAINTENANCE

The Sioux Chief 660-GTC1 Mini-Rester is designed for maintenance-free operation. It does not require periodic air recharging or internal component replacement under normal operating conditions.

Maintenance Considerations:

- **Visual Inspection:** Periodically inspect the arrester and its connections for any signs of leaks, corrosion, or physical damage.
- **Performance Check:** If water hammer symptoms return, it may indicate a loss of air charge or a malfunction. In such cases, the unit may need to be replaced.
- **Cleaning:** No internal cleaning is required. External surfaces can be wiped clean with a damp cloth if necessary.

TROUBLESHOOTING

If you experience water hammer after installing the Mini-Rester, consider the following troubleshooting steps:

- **Water Hammer Persists:**
 - **Check Installation Location:** Ensure the arrester is installed as close as possible to the valve or faucet causing the water hammer. Moving it closer can improve effectiveness.

- **Verify Arrester Size:** Confirm that the arrester is appropriately sized for the fixture and water flow rate. An undersized arrester may not be effective.
 - **Multiple Sources:** If water hammer occurs at multiple fixtures, additional arresters may be needed at each problematic point.
 - **Arrester Malfunction:** If the arrester is old or has been subjected to extreme conditions, its internal air charge may have been lost. In this case, the unit will need to be replaced.
- **Leaks at Connections:**
 - **Tighten Connections:** For threaded or compression fittings, ensure they are adequately tightened.
 - **Re-solder/Re-seal:** For sweat or solvent weld connections, the joint may need to be re-soldered or re-sealed if a leak is present.
 - **Inspect for Damage:** Check for cracks or damage to the arrester or connecting pipes.

If troubleshooting steps do not resolve the issue, contact a qualified plumbing professional.

SPECIFICATIONS

Specification	Detail
Model Number	660-GTC1
Brand	Sioux Chief
Material	Copper
Head Material	Copper
Color	Copper
Item Weight	5.6 ounces
Product Dimensions	5.25 x 1.38 x 8 inches
UPC	739236415127
Manufacturer	Jensen (Home Improvement)

WARRANTY AND SUPPORT

For specific warranty information regarding the Sioux Chief 660-GTC1 Mini-Rester Water Hammer Arrester, please refer to the documentation provided at the time of purchase or visit the official Sioux Chief website. Warranty terms typically cover manufacturing defects under normal use.

If you require technical assistance, have questions about installation, or need to report a product issue, please contact Sioux Chief customer support directly. Contact information can usually be found on the product packaging or their official website.

