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Symmons NS-1

Symmons NS-1 Showeroff Control Cartridge Instruction Manual

Model: NS-1 | Brand: Symmons

INTRODUCTION

This manual provides detailed instructions for the Symmons NS-1 Showeroff Control Cartridge. This complete cartridge replacement unit is designed for automatic shower limiting valves, specifically compatible with Model 83 (1983 to date) Tub & Shower Cartridges. It serves as a direct replacement part to restore proper water flow control and performance in your shower system.

KEY FEATURES

- **OEM Symmons Replacement Part:** Genuine Symmons repair component designed to original specifications for correct fit, function, and dependable operation. Manufactured in Braintree, MA.
- **Durable Construction:** Heavy-duty metal construction, chrome-plated cartridge made from durable brass and stainless steel, featuring rubber O-rings for a tight seal and long-lasting reliability.
- **Compatibility:** Compatible with ShowerOff Model 83 automatic shower limiting valves (1983–present). Restores proper water flow control and performance.
- **Versatile Application:** Ideal for residential or commercial use, suitable for home, hospitality, healthcare, and institutional applications requiring consistent water shutoff control.

SETUP AND INSTALLATION

Replacing your Symmons NS-1 Showeroff Control Cartridge requires careful attention to detail. Always ensure the main water supply is turned off before beginning any plumbing work.

1. **Turn Off Water Supply:** Locate the main water shut-off valve for your home or the specific shut-off valves for the shower. Turn them off completely to prevent water flow during installation.
2. **Drain Remaining Water:** Open the shower faucet to drain any residual water from the pipes.
3. **Remove Handle and Trim:** Carefully remove the shower handle and any decorative trim plates to expose the valve body. You may need a screwdriver to remove retaining screws.
4. **Access the Old Cartridge:** Depending on your specific Model 83 valve, you may need to remove a retaining clip, nut, or screws that hold the existing cartridge in place. Refer to your specific valve's diagram if available.
5. **Extract Old Cartridge:** Gently pull out the old cartridge. It might require some wiggling or a specialized cartridge puller if it's

stuck. Note its orientation for correct installation of the new one.

6. **Clean Valve Body:** Inspect the valve body for any debris, mineral buildup, or old O-ring fragments. Clean the area thoroughly to ensure a proper seal with the new cartridge.
7. **Install New Cartridge:** Apply a small amount of plumber's grease to the new Symmons NS-1 cartridge's O-rings. Carefully insert the new cartridge into the valve body, ensuring it is correctly oriented. It should slide in smoothly.
8. **Secure New Cartridge:** Reinstall any retaining clips, nuts, or screws that hold the cartridge in place. Ensure it is firmly seated and secure.
9. **Reassemble Trim and Handle:** Reattach the decorative trim plate and the shower handle.
10. **Restore Water Supply:** Slowly turn the main water supply back on. Check for any leaks around the valve area.
11. **Test Operation:** Test the shower for proper water flow, temperature control, and shut-off functionality.



Image: The Symmons NS-1 Showeroff Control Cartridge, a brass replacement unit for Model 83 automatic shower limiting valves.

OPERATING INSTRUCTIONS

The Symmons NS-1 cartridge, when installed in a compatible Model 83 Showeroff valve, provides reliable control over water flow and temperature. The operation is typically intuitive:

- **Turning On/Off:** Rotate the shower handle to initiate or stop water flow.
- **Temperature Adjustment:** Rotate the handle to adjust the water temperature. The cartridge is designed to maintain a consistent temperature, preventing sudden scalding or freezing.
- **Flow Control:** The cartridge regulates water flow to ensure efficient operation.

For specific handle and trim operation, refer to the instructions provided with your Symmons shower trim kit.

MAINTENANCE

Regular maintenance helps prolong the life and efficiency of your Symmons NS-1 Showeroff Control Cartridge.

- **Regular Cleaning:** Periodically clean the showerhead and faucet aerator to remove mineral deposits that can affect water flow.
- **Check for Leaks:** Regularly inspect the shower valve area for any signs of leaks. Address minor leaks promptly to prevent further damage.
- **Cartridge Replacement:** While designed for durability, cartridges can wear out over time. If you notice persistent issues with temperature control, leaks from the handle, or reduced flow, it may be time for a replacement.

TROUBLESHOOTING

If you encounter issues with your Symmons Showeroff valve after installing the NS-1 cartridge, consider the following common problems and solutions:

- **Leaking from Handle:** This often indicates worn O-rings on the cartridge. Ensure the new cartridge was installed correctly and that its O-rings were properly lubricated. If the leak persists, the cartridge may be faulty or not seated correctly.
- **No Hot or Cold Water:** Verify that the hot and cold water supply lines to the shower are fully open. If only one temperature is affected, the issue might be with the water heater or a blockage in that specific line. If both are affected, the cartridge might be installed incorrectly or damaged.
- **Low Water Flow:** Check for clogs in the showerhead or aerator. If these are clear, ensure the water supply valves are fully open. A partially obstructed cartridge or debris in the valve body can also cause low flow.
- **Temperature Fluctuations:** This can be a sign of a failing pressure-balancing mechanism within the cartridge. Ensure the cartridge is fully seated and that there are no external factors affecting water pressure.

If troubleshooting steps do not resolve the issue, it is recommended to contact a qualified plumber or Symmons customer support for assistance.

SPECIFICATIONS

Manufacturer	Symmons
Part Number	NS-1
Item Weight	15 ounces
Product Dimensions	7.88 x 5.88 x 5 inches
Item Model Number	NS-1
Color	Brass
Style	Functional
Finish	Brass
Material	Brass, Bronze, Plastic
Item Package Quantity	1
Date First Available	April 11, 2012

WARRANTY AND SUPPORT

The Symmons NS-1 Showeroff Control Cartridge is backed by a robust warranty:

- **Residential Use:** Covered by Symmons limited lifetime warranty.
- **Commercial Installations:** Covered by a 10-year warranty.

For warranty claims, technical support, or further assistance, please visit the official Symmons website or contact their customer service department.

RELATED INFORMATION

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Video: "Symmons' Plumber's Night" - This video showcases an event hosted by Symmons, highlighting plumber engagement, product demonstrations, and the company's commitment to its customers and products. While not a direct installation guide, it provides insight into the brand and its professional community.

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