

Kohler GP800881

KOHLER Rite-Temp Pressure Balance Cartridge GP800881 Instruction Manual

1. PRODUCT OVERVIEW

The KOHLER Rite-Temp Pressure Balance Cartridge GP800881 is a genuine replacement part designed to maintain the original performance and extend the longevity of your Kohler Rite-Temp pressure balance valve. This one-piece cartridge features integrated double seals, simplifying both installation and maintenance. It is engineered to be seize resistant, ensuring reliable operation even in aggressive water conditions.

This cartridge is specifically designed for use with Kohler K-8304 pressure balance valves.



Image 1: Front view of the KOHLER Rite-Temp Pressure Balance Cartridge GP800881, showing the main body and the temperature adjustment mechanism.

2. INSTALLATION GUIDE

Before beginning installation, ensure the main water supply to the fixture is turned off to prevent water flow. Gather necessary tools, which typically include a screwdriver and possibly a wrench.

1. **Preparation:** Turn off the water supply to the shower or faucet. Open the faucet to drain any remaining water from the lines.
2. **Remove Old Cartridge:** Carefully remove the faucet handle and trim plate to expose the existing cartridge. Unscrew the retaining screws or nuts holding the old cartridge in place. Gently pull out the old cartridge. Note its orientation, especially the 'COLD' marking, for correct installation of the new cartridge.



Image 2: Top view of the cartridge, showing the warning label for temperature setting and the central brass stem.

3. **Clean Valve Body:** Clean any debris or mineral deposits from inside the valve body. Ensure the area is dry before inserting the new cartridge.

4. **Install New Cartridge:** Apply a thin layer of silicone grease to the O-rings of the new GP800881 cartridge. Insert the new cartridge into the valve body, ensuring it is correctly oriented. The 'COLD' marking on the cartridge should align with the cold water inlet. Secure the cartridge with the retaining screws or nuts.



Image 3: Top view of the cartridge with the orange temperature limit stop visible, indicating the adjustable temperature setting.

5. **Set Temperature Limit:** The cartridge features an adjustable temperature limit stop (orange component). Refer to the installation guide provided with your faucet trim for specific instructions on how to set the maximum hot water temperature, typically not exceeding 120°F (49°C).
6. **Reassemble:** Reattach the trim plate and faucet handle.
7. **Test:** Slowly turn the main water supply back on. Check for leaks and test the hot and cold water flow and temperature.



Image 4: Side view of the cartridge, showing the inlet/outlet ports and the overall one-piece design.

3. OPERATION

The Rite-Temp Pressure Balance Cartridge GP800881 is an internal component that regulates water temperature and pressure. Once installed, its operation is seamless and automatic, working in conjunction with your faucet handle.

- **Temperature Control:** The cartridge maintains a consistent water temperature by balancing the hot and cold water pressure, even when other water sources in the house are used.
- **Pressure Balance:** It prevents sudden temperature changes (scalding or freezing) by automatically adjusting the water flow in response to pressure fluctuations.
- **Temperature Limit Stop:** The adjustable limit stop allows you to set a maximum hot water temperature, enhancing safety and preventing accidental scalding.

4. MAINTENANCE

The KOHLER Rite-Temp Pressure Balance Cartridge GP800881 is designed for durability and minimal maintenance. Its one-piece construction with integrated double seals contributes to its reliability.

- **Regular Inspection:** Periodically check for any signs of leaks around the faucet or shower valve.
- **Cleaning:** If water flow becomes restricted or inconsistent, it may indicate mineral buildup. In such cases, the cartridge may need to be removed and cleaned, or replaced if cleaning does not resolve the issue.
- **Replacement:** While designed for longevity, cartridges can wear out over time. If you experience persistent dripping, difficulty in maintaining temperature, or significant pressure drops, replacement of the cartridge may be necessary. The GP800881 is designed to be seize resistant, which helps prolong its life in areas with aggressive water.

5. TROUBLESHOOTING

Refer to the following common issues and their potential solutions:

- **Dripping Faucet/Shower:**

Possible Cause: Worn seals within the cartridge.

Solution: Replace the cartridge. Ensure the new cartridge is properly seated and secured.

- **Inconsistent Water Temperature (Too Hot/Too Cold):**

Possible Cause: Incorrectly set temperature limit stop, or internal cartridge malfunction.

Solution: Adjust the temperature limit stop (refer to Section 2). If the issue persists, the cartridge may be faulty and require replacement. Ensure the cartridge is 'clocked' correctly during installation.

- **Low Water Flow:**

Possible Cause: Mineral buildup or debris obstructing the cartridge.

Solution: Remove and inspect the cartridge for obstructions. Clean if possible, or replace if severely clogged or damaged.

- **No Hot or Cold Water:**

Possible Cause: Cartridge installed incorrectly or a complete failure of the cartridge.

Solution: Verify the cartridge orientation (COLD marking). If correct, replace the cartridge.

6. SPECIFICATIONS

Feature	Specification
Model Number	GP800881
Brand	Kohler
Material	Metal
Exterior Finish	Brass
Item Dimensions (L x W x H)	7.25 x 4.75 x 3 inches
Item Weight	0.32 ounces
Inlet Connection Size	4.75 Inches
Inlet Connection Type	FIP
Outlet Connection Size	4.75 Inches
Outlet Connection Type	FIP
Number of Ports	2
UPC	885612425065
Included Components	Cartridge

7. WARRANTY INFORMATION

As a genuine KOHLER part, the GP800881 Rite-Temp Pressure Balance Cartridge is designed to meet Kohler's high standards for quality and performance. Using genuine Kohler parts helps protect the warranty

of your Kohler products.

For specific warranty details and terms, please refer to the official Kohler warranty documentation that came with your original Kohler fixture or visit the official Kohler website. Warranties typically cover manufacturing defects and material flaws under normal use.

8. SUPPORT

If you require further assistance with the installation, operation, or troubleshooting of your KOHLER Rite-Temp Pressure Balance Cartridge GP800881, please contact Kohler Customer Service.

- **Online Resources:** Visit the official Kohler website for product documentation, FAQs, and support contact information.
- **Contact a Professional:** For complex installations or persistent issues, it is recommended to consult a qualified plumber.

For more information on Kohler products and genuine parts, you can visit the [Kohler Store on Amazon](#).