

Sloan 3982604

Sloan Regal 186 Exposed Manual Urinal Flushometer 0.125 GPF - Instruction Manual

Model: 3982604 | Brand: Sloan

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the Sloan Regal 186 Exposed Manual Urinal Flushometer. Designed for commercial applications, this flushometer offers reliable performance and water conservation with its 0.125 Gallons Per Flush (GPF) rate. It features a durable brass construction with a polished chrome finish, ensuring longevity and a professional appearance in high-traffic restrooms. Key features include a non-hold-open handle to prevent excessive water use, a vacuum breaker flush connection for hygienic operation, and ADA compliance for accessibility.

2. SAFETY INFORMATION

Always ensure the main water supply is turned off before attempting any installation, maintenance, or repair. Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves. If you are unsure about any step, consult a qualified plumber. This product is intended for commercial use and should be installed in accordance with local plumbing codes and regulations.

3. COMPONENTS OVERVIEW

The Sloan Regal 186 Flushometer consists of several key components:

- **Main Body:** Houses the internal flushing mechanism.
- **Non-Hold-Open Handle:** Manual lever for initiating a flush cycle.
- **Control Stop Plug:** Allows for water flow adjustment and shut-off for maintenance.
- **Vacuum Breaker Flush Connection:** Prevents backflow into the water supply.
- **Sweat Solder Adapter:** For secure connection to the water supply.
- **Cast Wall Flange:** Provides stable mounting to the wall.
- **3/4" I.P.S. Screwdriver Bak-Chek Angle Stop:** For precise water flow control and shut-off.



Figure 3.1: Front view of the Sloan Regal 186 Exposed Manual Urinal Flushometer, showcasing its polished chrome finish and main components.



Figure 3.2: Angled view of the flushometer, highlighting the handle and water inlet connection.

4. INSTALLATION

Proper installation is crucial for optimal performance. Ensure all necessary tools and components are available before beginning.

4.1 Pre-Installation Steps

1. Turn off the main water supply to the urinal.

2. Flush the urinal to relieve any remaining water pressure.
3. Remove any existing flushometer or plumbing.

4.2 Mounting the Flushometer

1. Position the flushometer on the urinal, aligning the spud connection.
2. Secure the flushometer to the wall using the provided cast wall flange and set screw. Ensure it is level and stable.
3. Connect the water supply line to the 3/4" I.P.S. screwdriver Bak-Chek angle stop. Use the sweat solder adapter for a secure, leak-free connection.
4. Attach the vacuum breaker flush connection to the urinal's top spud.



Figure 4.1: The Sloan Regal 186 Flushometer correctly installed on a white urinal, demonstrating its exposed design.



Figure 4.2: A wider view of the flushometer installed in a commercial restroom, showing its integration with the urinal and surrounding environment.

5. OPERATING INSTRUCTIONS

The Sloan Regal 186 Flushometer is designed for simple and consistent operation.

1. Once installation is complete and the water supply is restored, the flushometer is ready for use.
2. To activate a flush, firmly push the non-hold-open handle. The handle will return to its original position automatically after initiating the flush cycle.
3. The non-hold-open feature ensures that only the pre-set amount of water (0.125 GPF) is used per flush, promoting water conservation.

5.1 Operational Demonstration

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Video 5.1: A demonstration of the Sloan Regal Flushometer in operation, showing the manual handle activation and the resulting flush cycle. This video highlights the product's functionality and water flow.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your Sloan Regal 186 Flushometer.

6.1 Cleaning

Clean the exterior chrome finish regularly with a soft cloth and mild, non-abrasive cleaner to maintain its luster. Avoid harsh

chemicals that can damage the finish.

6.2 Water Flow Adjustment

The control stop plug allows for adjustment of the water flow. If the flush is too weak or too strong, you can adjust this plug using a screwdriver. Turn clockwise to decrease flow, counter-clockwise to increase flow. Always make small adjustments and test the flush after each change.

6.3 Internal Component Check

Periodically inspect the internal components, such as the diaphragm, for wear or debris. If the valve becomes 'gummed up' with sand or other particles, it may cause continuous flushing or prevent proper operation. In such cases, the control stop plug can be used to shut off water, allowing for disassembly and cleaning of the internal parts. Refer to the manufacturer's detailed service manual for specific disassembly and reassembly instructions.

7. TROUBLESHOOTING

Below are common issues and their potential solutions:

Problem	Possible Cause	Solution
No flush or weak flush	Low water pressure; clogged inlet; diaphragm issue.	Check building water pressure. Clean or replace the inlet screen. Inspect and clean/replace diaphragm.
Continuous flushing	Debris in the diaphragm assembly; worn diaphragm.	Turn off water at the control stop. Disassemble and clean the diaphragm. Replace if worn.
Leaking from handle	Worn packing or seals around the handle.	Replace the handle packing or seals.

8. SPECIFICATIONS

Feature	Detail
Model Number	3982604
Flush Volume	0.125 GPF (Gallons Per Flush)
Material	Brass
Finish	Polished Chrome
Handle Type	Manual, Non-Hold-Open, ADA Compliant
Inlet Connection Type	Top Spud
Outlet Connection Type	Fixture Top Spud
Item Dimensions (L x W x H)	9.75 x 9.13 x 4.38 inches
Item Weight	5 pounds
Certifications	ADA, ANSI, ASSE
UPC	671254396876

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact Sloan directly through their official website or customer service channels. Keep your purchase receipt for warranty claims.