

Naval® Flushometer

Also for use with Crown® (Old style),
Star and Marine

TROUBLESHOOTING GUIDE

IMPORTANT: The NAVAL® flushometer is engineered for quiet operation. Excessive water flow creates noise, while too little water flow may not satisfy the needs of the fixture. Proper adjustment is made when plumbing fixture is cleansed after each flush without splashing water out from the lip AND a quiet flushing cycle is achieved.

Never open Control Stop to where the flow from the valve exceeds the flow capability of the fixture. In the event of a valve failure, the fixture must be able to accommodate a continuous flow from the valve.

ATTENTION INSTALLERS: With the exception of the control stop inlet, DO NOT USE pipe sealant or plumbing grease on any valve component or coupling! To protect the chrome or special finish of Sloan flushometers, DO NOT USE toothed tools to install or service these valves. Use our A-50 Super-Wrench™ or other smooth-jawed wrench to secure couplings. Regulations for low consumption fixtures (1.6 gpf/6.0 Lpf closets and 1.0 gpf/3.8 Lpf urinals) prohibit use of higher flush volumes.

NOTE: In all piston variations the SH-406 spring has replaced the "U" bar. In all piston variations the CN-68-A single lip cup has replaced the S-14-A double lip cup. When rebuilding a piston, install the CN-68-A single lip cup with the cup facing down.

1. Valve DOES NOT function.

- Control stop or main valve closed. Open control stop or main valve.
- Handle assembly is worn. Install handle repair kit B-51-A or replace handle.

2. Insufficient volume of water to adequately siphon fixture.

- Control stop not open enough. Adjust control stop for desired delivery of water.
- Urinal or shower piston installed in a closet valve or older blow out urinal. Replace piston with proper closet piston (see item 4).
- Regulating screw (on top of valve) not at proper setting. Turn regulating screw counterclockwise to increase flush. Adjustment range: urinal – 0.5 to 3 gpf (1.9 to 11.4 Lpf); closet – 1.5 to 7 gpf (5.7 to 26.5 Lpf).
- Piston worn out. Repair or replace piston.
- Inadequate volume or pressure at supply. If no gauges are available to properly measure supply pressure or volume of water at the valve, then completely remove the entire piston from the valve, reassemble cover and open control stop to allow water to pass through empty valve. If the supply is adequate to siphon the fixture, remove the flow ring from the bottom of the piston to provide additional flow. If the supply is not adequate to siphon the fixture, steps should be taken to increase the pressure and/or supply.

3. Length of flush too short (short flushing) or valve closes off immediately.

- Regulating screw not at a proper setting. Turn regulating screw counterclockwise to lengthen flush.
- Water passing by damaged or worn piston cup. Repair or replace piston.
- Loose piston assembly or loose top plate screw. Tighten top plate screws. Screw piston body and guide together (hand tighten ONLY – rubber relief valve seat will distort if screwed too tight).
- Damaged or worn piston top plate or expel. Repair or replace piston.
- Urinal or shower piston installed in a closet valve or older blow out urinal. Replace piston with closet piston CN-1002-A.

4. Length of flush too long (long flushing) or fails to close off.

- Regulating screw not at proper setting. Turn regulating screw clockwise to shorten flush.
- Relief valve in piston is not seating properly due to wear or debris. Disassemble piston assembly and wash under running water. Repair or replace piston if necessary.
- Bypass holes in piston or top plate clogged or fouled with debris. Disassemble piston assembly and wash under running water. Repair or replace piston if necessary.
- Closet piston installed in urinal valve. Replace piston with urinal piston CN-1003-A.
- Line water pressure has dropped and is not sufficient to force relief valve to seat. Shut off control stop until pressure has been restored, then reopen stop.

5. Water splashes from fixture.

- Supply volume is more than necessary. Adjust control stop to meet flow rate required for proper cleansing of fixture.
- Lime or mineral accumulation on fixture vortex or spreader holes. Remove lime or mineral build-up in fixture.

6. Flush is not considered "quiet" or makes noise at close off.

- Control stop not properly adjusted. Adjust control stop to meet flow rate required for proper cleansing of the fixture.
- Worn, damaged or loose main seat. Replace main seat.
- Worn piston. Repair or replace piston.

7. Leaking at handle assembly.

- The B-39 handle seal may be deteriorated. Install new B-39 handle seal. NOTE: The B-39 seal will easily slide right onto the bushing if it is wet.
- Handle gasket has been omitted. Install A-31 handle gasket or handle repair kit B-51-A.
- Valve handle bushing is worn. Install handle repair kit B-51-A.

CARE AND CLEANING INSTRUCTIONS

DO NOT USE abrasive or chemical cleaners to clean flushometers that may dull the luster and attack the chrome or special decorative finishes. Use **ONLY** mild soap and water, then wipe dry with clean cloth or towel.

While cleaning the bathroom tile, protect the flushometer from any splattering of cleaner. Acids and cleaning fluids can discolor or remove chrome plating.

**When assistance is required, please contact
Sloan Technical Support at: 1-888-SLOAN-14 (1-888-756-2614).**