LIMITED WARRANTY

Sloan Valve Company warrants its Regal XL Flushometers to be made of first class materials, free from defects of material or workmanship under normal use and to perform the service for which they are intended in a thoroughly reliable and efficient manner when properly installed and serviced, for a period of three years (1 year for special finishes) from date of purchase. During this period, Sloan Valve Company will, at its option, repair or replace any part or parts which prove to be thus defective if returned to Sloan Valve Company, at customer’s cost, and this shall be the sole remedy available under this warranty. No claims will be allowed for labor, transportation or other incidental costs. This warranty extends only to persons or organizations who purchase Sloan Valve Company’s products directly from Sloan Valve Company for purpose of resale.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IN NO EVENT IS SLOAN VALVE COMPANY RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGES OF ANY MEASURE WHATSOEVER.

PRIOR TO INSTALLATION

Before you install the Regal XL Flushometer, be sure the items listed below are installed. Also, refer to the rough-in diagrams on the next page.

- Closet or urinal fixture
- Drain line
- Water supply line

Important:

- INSTALL ALL PLUMBING IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
- WATER SUPPLY LINES MUST BE SIZED TO PROVIDE AN ADEQUATE VOLUME OF WATER FOR EACH FIXTURE.
- FLUSH ALL WATER LINES PRIOR TO MAKING CONNECTIONS.

The Sloan Regal XL Flushometer is designed to operate with 10 to 100 psi (69 to 689 kPa) of water pressure. **THE MINIMUM PRESSURE REQUIRED TO THE VALVE IS DETERMINED BY THE TYPE OF FIXTURE SELECTED.** Consult fixture manufacturer for minimum pressure requirements. Most Low Consumption water closets (1.6 gpf/6.0 Lpf) require a minimum flowing pressure of 25 psi (172 kPa).

TOOLS REQUIRED FOR INSTALLATION

- Straight blade screwdriver
- Sloan A-50 Super-Wrench™, Sloan A-109 Plier Wrench or smooth jawed spud wrench

NOTE: Water Closet Valves with "2.4" Model Designation deliver 2.4 gpf (9.0 Lpf)

† 1" Control Stop is available with Whitworth Thread

IMPORTANT NOTES:
- When mounted on an ADA accessible bowl, the rough-in to the supply inlet should be no higher than 37½" or the handle will exceed maximum height allowances under ADA guidelines.
- New ADAAG Guidelines allow for Split or Offset Grab Bars, check with local authorities or reference section 604.5.2 of ADAAG.
1 - INSTALL SWEAT SOLDER ADAPTER (ONLY IF YOUR SUPPLY PIPE DOES NOT HAVE A MALE THREAD)

A. Measure from finished wall to C/L of Fixture Spud. Cut pipe 1 1/4" (32 mm) shorter than this measurement. Chamfer O.D. and I.D. of water supply pipe.

B. Slide Threaded Adapter fully onto pipe.

C. Sweat solder the Adapter to pipe.

2 - INSTALL COVER TUBE, WALL FLANGE AND CONTROL STOP TO SUPPLY PIPE AND INSTALL VACUUM BREAKER FLUSH CONNECTION

A. Measure from finished wall to first thread of Adapter or threaded supply pipe (dimension "X"). Cut Cover Tube to this length.

B. Slide Cover Tube over pipe. Slide Wall Flange over Cover Tube until against wall.

C. Thread Control Stop onto pipe. Tighten with a wrench making sure outlet is positioned as required.

D. Tighten Setscrew with a 1/16" hex wrench. **DO NOT** install Vandal Resistant Plug at this time.

E. Slide Spud Coupling, Nylon Slip Gasket, Rubber Gasket and Spud Flange over Vacuum Breaker Tube.

F. Insert Tube into Fixture Spud.

G. Hand tighten Spud Coupling onto Fixture Spud.
### 3 - INSTALL FLUSHOMETER AND HANDLE ASSEMBLY

**A** Lubricate tailpiece O-ring with water. Insert Adjustable Tailpiece into Control Stop. Tighten Tailpiece Coupling by hand.

**B** Align Flushometer directly above the Vacuum Breaker Flush Connection by sliding the Flushometer Body IN or OUT as needed. Tighten Vacuum Breaker Coupling by hand.

**C** Align Flushometer Body. Using a wrench, securely tighten couplings in the order given: (1) Tailpiece Coupling, (2) Vacuum Breaker Coupling and (3) Spud Coupling.

**D** Install the red A-31 Handle Gasket on the Handle Assembly. Insert the ADA Handle Assembly (B-73-A) into the Handle opening in the Flushometer Body. Securely tighten the Handle coupling with a wrench.

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### 4 - FLUSH OUT SUPPLY LINE

**A** Make sure Control Stop is CLOSED and remove Flushometer Outer Cover.

**B** Remove Inside Cover and lift out Inside Parts Assembly.

**C** Reinstall Outside and Inside Cover wrench tight. Open Control Stop to flush supply line. Close Control Stop and remove Outside and Inside Cover.

**D** Reinstall Inside Parts Assembly, Inside Cover and Outside Cover wrench tight.

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### 5 - ADJUST CONTROL STOP AND INSTALL PLUG

**A** Open Control Stop COUNTERCLOCKWISE one FULL turn from closed position.

**B** Activate Flushometer.

**C** Adjust Control Stop after each flush until the rate of flow delivered properly cleanses the fixture.

**D** Install Plug into the Control Stop by pressing into Bonnet.

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### IMPORTANT

The Regal XL Flusher 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 the plumbing fixture is cleaned 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.
CARE AND CLEANING

DO NOT USE abrasive or chemical cleaners (including chlorine bleach) 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 will discolor or remove chrome plating.

TROUBLESHOOTING GUIDE

1. Flushometer does not function (no flush).
   A. Control Stop or Main Valve is Closed. Open Control Stop or Main Valve.
   B. Handle Assembly is damaged. Replace Handle (B-32-A or B-73-A) or install Handle Repair Kit (B-50-A).
   C. Relief Valve is damaged. Replace Inside Parts Kit.

2. Volume of water is not sufficient to siphon fixture.
   A. Control Stop is not open wide enough. Adjust Control Stop for desired delivery of water volume.
   B. Urinal Flushometer Parts inside a Closet Flushometer. Replace Inside Urinal Parts with proper Closet Flushometer Parts.
   D. Water Saver Kit installed in old, non-Water Saver bowl. Position Refill Head A-170 so that SIDE 1 is in the UP Position.
   E. Inadequate volume or pressure at supply.
      - If no gauges are available to properly measure supply pressure or volume of water at the Flushometer, then remove the Relief Valve from the Inside Parts Kit, reassemble the Flushometer and open the Control Stop. If the fixture siphons, more water volume is required. If a 3.5 gpf Inside Parts Kit is installed in the Flushometer, then first flip the Refill Head (under the Diaphragm) to obtain a 4.5 gpf volume. If this volume is still inadequate, remove the Flow Ring from the Guide to obtain a 6.5 gpf Kit. If additional flow is still required, try a Low Pressure Guide Kit A-175-A (#0301104). IMPORTANT — Laws and Regulations requiring Low Consumption Fixtures (1.6 gpf Water Closets and 1.0 gpf Urinals) prohibit the use of higher flushing volumes.
      - If fixture does not siphon or if a Low Consumption fixture is installed, or if the above steps do not prove satisfactory, steps must be taken to increase the pressure and/or supply.

3. Flushometer closes off immediately.
   A. Ruptured or damaged Diaphragm. Install Inside Parts Kit to correct problem and update Flushometer.
   B. Enlarged By-Pass orifice from corrosion or damage. Install Inside Parts Kit to correct problem and update Flushometer.

4. Length of flush is too short (short flush).
   A. Diaphragm Assembly and Guide Assembly are not hand-tight. Screw the two assemblies hand-tight.
   B. Enlarged By-pass orifice from corrosion or damage. Install NEW Inside Parts Kit to correct problem and update Flushometer.
   D. A-41-A Low Consumption Kit installed in non-Low Consumption fixture. Replace with proper Inside Parts Kit.
   E. Handle Assembly is damaged. Replace Handle (B-32-A or B-73-A) or install Handle Repair Kit (B-50-A).

5. Length of flush is too long (Long Flushing) or fails to close off.
   A. Relief Valve (A-19-A) is not seating properly or By-pass orifice is clogged because of foreign material, or By-pass orifice is closed by an invisible gelatinous film from “over-treated” water. Disassemble the working parts and wash thoroughly.
   NOTE: SIZE OF THE ORIFICE IN THE BY-PASS IS OF UTMOST IMPORTANCE FOR THE PROPER METERING OF WATER INTO THE UPPER CHAMBER OF THE FLUSHOMETER. DO NOT ENLARGE OR DAMAGE THIS ORIFICE. REPLACE INSIDE KIT IF CLEANING DOES NOT CORRECT PROBLEM.
   B. Line pressure has dropped and is not sufficient to force Relief Valve to seat. Shut off all control stops until pressure has been restored, then open them again.
   C. A-19-AC (White) Closet Relief Valve has been used in a 1 or 1½ gpf Urinal. Replace with A-19-AU (Black) Relief Valve.
   D. Inside Cover is cracked or damaged. Replace the Inside Cover (A-71).

6. Chattering noise is heard during flush.
   A. Inside Cover is damaged. Replace Inside Cover (A-71).
   B. A-156-A Segment Diaphragm has been installed upside-down. Reposition the Segment Diaphragm properly (see markings on the Diaphragm).

7. Handle Leaks.
   A. B-39 Handle Seal is worn or damaged. Install new B-39 Seal.
   NOTE: The B-39 Seal will easily slide onto the B-40 Bushing when wet.
   B. Handle gasket has been omitted. Install Handle Gasket (A-31) or Sloan Handle Repair Kit (B-50-A).
   C. Valve Handle Bushing is worn. Replace Handle Repair Kit (B-50-A).

Refer to the Regal XL Flushometer Maintenance Guide for additional Troubleshooting and Repair Part information.

When assistance is required, please contact Valve Company Installation Engineering Department at:

1-888-SLOAN-14 (1-888-756-2614) or 1-847-233-2016
PARTS LIST

REPAIR KITS

INSIDE PARTS KIT FOR SLOAN REGAL® XL FLUSHOMETERS

REPAIR KIT SELECTION GUIDE

Kit No.  Flush Volume  “Used On”
A-36-A  4.5 gpf (17.0 Lpf)  Very old Water Closets, primarily Blow Outs
A-37-A  1.5 gpf (5.7 Lpf)  Older Siphon Jet and some Blow Out Urinals
A-38-A  3.5 gpf (13.2 Lpf) Water Saver Water Closets and old Blow Out Urinals *
A-41-A  1.6 gpf (6.0 Lpf)  Low Consumption Water Closets †
A-42-A  1.0 gpf (3.8 Lpf)  Low Consumption Urinals (Siphon Jet and Blow Out)
A-43-A  0.5 gpf (1.9 Lpf)  Wash Down Urinals only ‡
A-44-A  2.4 gpf (9.0 Lpf)  European and Asian Style 9 Liter Water Closets

* Includes newer Blow Out Water Closets
† Low Consumption Water Closets are marked “1.6 gpf” or “6.0 Lpf”
‡ Some Wash Down Urinals may require a 1.0 gallon (3.8 liter) flush

REGAL® XL VALVE REPAIR KITS §

Kit No.  Flush Volume  “Used On”
R-1001-A  4.5 gpf (17.0 Lpf)  Water Closets
R-1002-A  1.5 gpf (5.7 Lpf)  Urinals
R-1003-A  3.5 gpf (13.2 Lpf) Water Closets
R-1004-A  1.6 gpf (6.0 Lpf)  Water Closets
R-1005-A  1.0 gpf (3.8 Lpf)  Urinals
R-1011-A  0.5 gpf (1.9 Lpf)  Urinals
R-1012-A  2.4 gpf (9.0 Lpf)  Water Closets

§ Kit includes:
A  Inside Parts Kit
B  Handle Repair Kit
C  Vacuum Breaker Repair Kit
D  Tailpiece “O” Ring

NOTE: The information contained in this document is subject to change without notice.

SPECIAL NOTE

For Service Sinks which require a 6.5 gpf (24.6 Lpf), use Sloan Repair Kit No. A-36-A and remove Flow Ring before installing.

For a complete listing of Flusher Valve components and Repair Kits, see the Regal Maintenance Guide or consult your nearest Plumbing Wholesaler.

For optimum water conservation and Flusherometer performance, use only Genuine Sloan Parts.