

Battery Operated Flush Valve Training Manual

A companion guide to the Speakman Flush Valve Brochure



SPEAKMAN®

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Certified by IAPMO to UPC, ASSE 1037-90 and CSA B125.3-05:

IAPMO testing has confirmed the Speakman flush valve meets all the code and standard requirements for both the United States and Canada. The cap of the flush valve is marked with the cUPC logo as confirmation of our approval.

The Speakman approval can be found on the IAPMO R&T web site, clicking on “Product Listing Directory” and entering File “5268” into the search field. A PDF of our certification can also be printed from this web site.

Polished Chrome Plated Brass Body & Cover:

The all brass body and cap provides maximum security and protection to the valve. There are no plastic parts that can be damaged or vandalized.

Mechanical Push Button Override:

The mechanical push button override allows the user or the facility to flush the valve regardless of whether there is battery power remaining in the unit, or not. Other products have overrides that require the use of battery power to operate the valve - meaning if power is lost, there is no simple way to flush. The mechanical override assures that as long as there is water pressure, the valve can be flushed.

For locations that have a high potential for vandalism or misuse of the product, Speakman also provides a vandal resistant housing for the push button that does not allow the user to press the override, but still contains a small opening for flush activation with the use of a small screw driver, Allen wrench, etc.

Patented Locking Tailpiece Adjustment:

Traditional flush valves use a stainless steel locking ring to fix the position of the tailpiece nut to the stop in order to hold the rough-in centerline. These locking rings have a tendency to slip and can potentially come completely off the valve.

The Speakman tailpiece has uses a patented threaded locking mechanism to provide simple and accurate rough-in adjustment. When the tailpiece nut is secured a tight brass to brass connection is created that cannot slip or come loose.

In-line Stainless Steel Filter:

Most critical to the performance of just about all valve mechanisms is keeping the valve clean from dirt and debris. The Speakman flush valve contains an easily reached and serviceable in-line filter located in the stop tailpiece. The valve does not need to be opened to clean the filter, simply loosen the stop and vacuum breaker mounting nuts, remove the filter, rinse off debris and re-assemble. No expensive repair parts are needed. The filter will last as long as the valve is installed.

No Wrench (Hand Tighten) Tailpiece Nut:

The tailpiece nut is held in place with the patented locking mechanism. In most installations, water pressure creates enough force on the nut connection that even when only hand tightened the tailpiece nut cannot be undone. In this manner, there is no need to wrench tighten the tailpiece nut. Hand tightening with the support of water pressure will be sufficient. When needing to loosen the nut, simply turn off the water at the stop, flush the valve to relieve the line pressure and the nut will loosen by hand. This feature enhances the ease of serviceability to in-line filter by making it quick and easy to reach.

Self Cleaning By-Pass:

While the vast majority of debris in the water line will be captured by the in-line filter, it is possible for some tiny debris to make it through the filter and for mineral build up inside the valve. The self cleaning by-pass maintains a clear and stable by-pass opening allowing for consistent flushing for a long period of time.

Renewable Seating Surface:

Over time, seating surfaces have the potential to lose the smooth surface finish needed to create a seal. When the surface becomes scarred the seal will be lost and the valve will begin to leak. In the case of an integral brass seat manufactured as part of the valve, this means the valve itself has reached its maximum life and must be replaced.

The Speakman flush valve incorporates a renewable seating surface design. This is an interchangeable seat that can be easily serviced in the field to bring the seating surface back to an as new condition. With this simple and inexpensive service item that only needs to be done very infrequently, the valve will last as long as the building and will never need to be replaced.

Easily Serviceable 6-Volt Lithium Battery:

Speakman powers its flush valve with a six volt lithium battery. The battery is easily serviceable by removing the cap retaining ring. The battery is directly under the cap. Water and power do not need to be turned off to change the batteries. All program settings are held in memory when the battery is changed so there is no need to re-program the unit when changing the batteries.

Estimated Battery Life verses flushing times per day is projected as follows:

<u>Flush Times Per Day</u>	<u>Years of Battery Life</u>
25	4.0
50	3.5
100	3.0
150	2.5
200	2.0
300	1.7

Timing Adjustment for Bowl Type and Water Pressure Conditions:

The valve is configured at the factory to meet current code requirements for 1.6 GPF for a water closet and 1.0 GPF for a urinal. However, for older installed fixtures and to adjust for more extreme water pressure conditions, the Speakman valve is equipped with simple timing adjustment switches that allow the user to configure the valve for optimal performance based on local site conditions. Simple adjustment of the switches change the valve opening timing for user determined water conservation and performance requirements.

Focal Distance Adjustment While Valve is Operational:

The focal distance of the sensor beam is pre-set at the factory for standard site conditions. However, based on facility site requirements and/or user preference, the focal distance of the sensor system can be easily adjusted by a simple turn of a potentiometer. This adjustment can be done while the valve is operational so it easy to set and test each adjustment until the optimal distance is determined.

Side to Side Sensor Beam Adjustment:

The beam direction of the sensor is factory set to come straight out of the valve. However, in some locations, particularly where highly reflective partitions are installed, it is beneficial to adjust the direction of the beam slightly from side to side to prevent auto activation from reflection. The Speakman sensor system easily pivots on the valve body by loosening two screws and rotating the sensor direction until the optimal beam direction is found.

Adaptable to Right & Left Hand Stop Installations:

Most sites are plumbed in for the stop to be installed to the right of the valve body. The Speakman valve is shipped configured for a right stop installation. However, in some instances the stop can be installed to the left of the valve body. It is very quick and simple to convert the valve from a right stop to a left stop installation. Simple remove the cover and the two screws securing the electronics housing to valve body, rotate the electronics housing 180 degrees and reassemble.

Valve Rough-In same as Sloan® Royal™ and Regal™ Valves:

The Speakman valve body has the same dimensions and thread sizes to retrofit an existing Sloan valve, i.e. you can remove an existing Sloan manual valve body and replace it with a Speakman battery operated valve and continue to use the existing stop and vacuum breaker assemblies.

The Speakman valve does not retrofit to an existing Delany valve. When converting from a Delany manual valve to Speakman battery operated valve please order the Speakman stop and vacuum breaker kits.