Hydrotek

Sensor Faucets and Flush Valves

OPERATION & MAINTENANCE MANUAL
8200 Series Flush Valve

www.hydrotekintl.com

5055 Forsyth Commerce Rd, Ste 124, Orlando, FL 32807

Phone (800) 922-9883 | Fax (866) 670-5580

Hydrotek

Sensor Faucets and Flush Valves

HE8200-1.6

1.6 GPF

Battery Powered Flush Valve (Closet)

Description

Battery powered, sensor operated, water conserving, closet flush valve for floor mounted or wall hung top spud bowls.

Flush Cycle

- 1.6 GPF
  - * *Flush valves may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer.*
  - * *Flow rate is field adjustable*

Specifications

Exposed, Piston Operated, Chrome Plated, Closet Flush Valve with the following features:

- Forward Removable Top Cap - No Need for Special ADA Handicap Bars Concessions
- Standard Brass/Chrome Plated All Metal Construction
- Hybrid Piston/Diaphragm Flushing Mechanism
- Reliable, Latching Solenoid Valve
- Standard Manual –Mechanical Override Button
- Field Adjustable to Left or Right Rough-In
- Operating Pressures: 20-125 PSI
- Standard Self-Cleaning Filtering System
- Superior VSI Silicone Elastomer Piston Seals are Unaffected by Chlorine, Chloromines, and Ammonia
- ADA Compliant—Infrared Sensor Operated for “No Hands” operation
- Self Adjusting Sensor
- Adjustable Tailpiece
- 1” I.P.S. Angle Stop Valve with Vandal Resistant Cap
- High Back Pressure Vacuum Breaker / Flush Tube Connection
- Spud Coupling and Flange for 1 ½” Top Spud
- Sweat Solder Adapter with Cover Tube and Wall Flange
- High Copper, Low Zinc Brass Casting for Dezincification Resistance
- 36-hour Sentinel Flush
- (4) AA Alkaline Batteries—Furnished

Electrical Specifications

- Battery: (4) AA Alkaline Batteries
- Solenoid Valve and Sensor, 6V DC
- Battery Service Life: 1.5 ***MILLION*** flushes, up to 10 years

Compliances & Certifications

ADA Compliant

ICC ES PMG

- ADA Compliant
- ASSE 1037/ASME A112.1037/CSA B125.37-2015
- IPC, IRC, and UPC Compliant

5055 Forsyth Commerce Rd Ste 124, Orlando, FL 32807
Phone: 800.922.9883 | Fax: 866.670.5580 | hydrotekintl.com

Revised 03/12/21

Hydrotek

Sensor Faucets and Flush Valves

HE8200-1.28

1.28 GPF

Battery Powered Flush Valve (Closet)

Description

Battery powered, sensor operated, water conserving, closet flush valve for floor mounted or wall hung top spud bowls.

Flush Cycle

- 1.28 GPF
  - * *Flush valves may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer.*
  - * *Flow rate is field adjustable*

Specifications

Exposed, Piston Operated, Chrome Plated, Closet Flush Valve with the following features:

- Forward Removable Top Cap - No Need for Special ADA Handicap Bars Concessions
- Standard Brass/Chrome Plated All Metal Construction
- Hybrid Piston/Diaphragm Flushing Mechanism
- Reliable, Latching Solenoid Valve
- Standard Manual –Mechanical Override Button
- Field Adjustable to Left or Right Rough-In
- Operating Pressures: 20-125 PSI
- Standard Self-Cleaning Filtering System
- Superior VSI Silicone Elastomer Piston Seals are Unaffected by Chlorine, Chloromines, and Ammonia
- ADA Compliant—Infrared Sensor Operated for “No Hands” operation
- Self Adjusting Sensor
- Adjustable Tailpiece
- 1” I.P.S. Angle Stop Valve with Vandal Resistant Cap
- High Back Pressure Vacuum Breaker / Flush Tube Connection
- Spud Coupling and Flange for 1 ½” Top Spud
- Sweat Solder Adapter with Cover Tube and Wall Flange
- High Copper, Low Zinc Brass Casting for Dezincification Resistance
- 36-hour Sentinel Flush
- (4) AA Alkaline Batteries—Furnished

Electrical Specifications

- Battery: (4) AA Alkaline Batteries
- Solenoid Valve and Sensor, 6V DC
- Battery Service Life: 1.5 ***MILLION*** flushes, up to 10 years

Compliances & Certifications

ADA Compliant

ICC ES PMG

WaterSense Meets EPA Criteria

- ADA Compliant
- ASSE 1037/ASME A112.1037/CSA B125.37-2015
- IPC, IRC, and UPC Compliant
- WaterSense Listed - WaterSense compliant when used with a 1.28 GPF WaterSense Fixture

5055 Forsyth Commerce Rd Ste 124, Orlando, FL 32807
Phone: 800.922.9883 | Fax: 866.670.5580 | hydrotekintl.com

Revised 03/18/21

Hydrotek

Sensor Faucets and Flush Valves

HE8200-1.28DF

1.28/1.1 GPF Dual Flush
Battery Powered Flush Valve (Closet)

Description

Battery powered, sensor operated, water conserving, closet flush valve for floor mounted or wall hung top spud bowls.

Flush Cycle

- Activate sensor for 60 seconds or less = 1.1 GPF
- Activate sensor for 61+ seconds = 1.28 GPF
  - * *Flush valves may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer.*
  - * *Flow rate is field adjustable*

Specifications

Exposed, Piston Operated, Chrome Plated, Closet Flush Valve with the following features:

- Forward Removable Top Cap - No Need for Special ADA Handicap Bars Concessions
- Standard Brass/Chrome Plated All Metal Construction
- Hybrid Piston/Diaphragm Flushing Mechanism
- Reliable, Latching Solenoid Valve
- Standard Manual –Mechanical Override Button
- Field Adjustable to Left or Right Rough-In
- Operating Pressures: 20-125 PSI
- Standard Self-Cleaning Filtering System
- Superior VSI Silicone Elastomer Piston Seals are Unaffected by Chlorine, Chloromines, and Ammonia
- ADA Compliant—Infrared Sensor Operated for “No Hands” operation
- Self Adjusting Sensor
- Adjustable Tailpiece
- 1” I.P.S. Angle Stop Valve with Vandal Resistant Cap
- High Back Pressure Vacuum Breaker / Flush Tube Connection
- Spud Coupling and Flange for 1 ½” Top Spud
- Sweat Solder Adapter with Cover Tube and Wall Flange
- High Copper, Low Zinc Brass Casting for Dezincification Resistance
- 36-hour Sentinel Flush
- (4) AA Alkaline Batteries—Furnished

Compliances & Certifications

ADA Compliant

- ADA Compliant
- ASSE 1037/ASME A112.1037/CSA B125.37-2015
- IPC, IRC, and UPC Compliant
- WaterSense Listed - WaterSense compliant when used with a 1.28 GPF WaterSense Fixture

Electrical Specifications

- Battery: (4) AA Alkaline Batteries
- Solenoid Valve and Sensor, 6V DC
- Battery Service Life: 1.5 ***MILLION*** flushes, up to 10 years

5055 Forsyth Commerce Rd Ste 124, Orlando, FL 32807
Phone: 800.922.9883 | Fax: 866.670.5580 | hydrotekintl.com

Revised 03/18/21

Hydrotek

Sensor Faucets and Flush Valves

HE8200-1.0

1.0 GPF

Battery Powered Flush Valve (Urinal)

Description

Battery powered, sensor operated, water conserving, urinal flush valve for floor mounted or wall hung top spud bowls.

Flush Cycle

- 1.0 GPF
  - * *Flush valves may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer.*
  - * *Flow rate is field adjustable*

Specifications

Exposed, Piston Operated, Chrome Plated, Urinal Flush Valve with the following features:

- Forward Removable Top Cap - No Need for Special ADA Handicap Bars Concessions
- Standard Brass/Chrome Plated All Metal Construction
- Hybrid Piston/Diaphragm Flushing Mechanism
- Reliable, Latching Solenoid Valve
- Standard Manual –Mechanical Override Button
- Field Adjustable to Left or Right Rough-In
- Operating Pressures: 20-125 PSI
- Standard Self-Cleaning Filtering System
- Superior VSI Silicone Elastomer Piston Seals are Unaffected by Chlorine, Chloromines, and Ammonia
- ADA Compliant—Infrared Sensor Operated for “No Hands” operation
- Self Adjusting Sensor
- Adjustable Tailpiece
- ¾” I.P.S. Angle Stop Valve with Vandal Resistant Cap
- High Back Pressure Vacuum Breaker / Flush Tube Connection
- Spud Coupling and Flange for ¾” Top Spud
- Sweat Solder Adapter with Cover Tube and Wall Flange
- High Copper, Low Zinc Brass Casting for Dezincification Resistance
- 36-hour Sentinel Flush
- (4) AA Alkaline Batteries—Furnished

Electrical Specifications

- Battery: (4) AA Alkaline Batteries
- Solenoid Valve and Sensor, 6V DC
- Battery Service Life: 1.5 ***MILLION*** flushes, up to 10 years

Compliances & Certifications

ADA Compliant

ICC ES PMG

- ADA Compliant
- ASSE 1037/ASME A112.1037/CSA B125.37-2015
- IPC, IRC, and UPC Compliant

5055 Forsyth Commerce Rd Ste 124, Orlando, FL 32807
Phone: 800.922.9883 | Fax: 866.670.5580 | hydrotekintl.com

Revised 03/19/21

Hydrotek

Sensor Faucets and Flush Valves

HE8200-0.5

0.5 GPF

Battery Powered Flush Valve (Urinal)

Description

Battery powered, sensor operated, water conserving, urinal flush valve for floor mounted or wall hung top spud bowls.

Flush Cycle

- 0.5 GPF
  - * *Flush valves may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer.*
  - * *Flow rate is field adjustable*

Specifications

Exposed, Piston Operated, Chrome Plated, Urinal Flush Valve with the following features:

- Forward Removable Top Cap - No Need for Special ADA Handicap Bars Concessions
- Standard Brass/Chrome Plated All Metal Construction
- Hybrid Piston/Diaphragm Flushing Mechanism
- Reliable, Latching Solenoid Valve
- Standard Manual –Mechanical Override Button
- Field Adjustable to Left or Right Rough-In
- Operating Pressures: 20-125 PSI
- Standard Self-Cleaning Filtering System
- Superior VSI Silicone Elastomer Piston Seals are Unaffected by Chlorine, Chloromines, and Ammonia
- ADA Compliant—Infrared Sensor Operated for “No Hands” operation
- Self Adjusting Sensor
- Adjustable Tailpiece
- ¾” I.P.S. Angle Stop Valve with Vandal Resistant Cap
- High Back Pressure Vacuum Breaker / Flush Tube Connection
- Spud Coupling and Flange for ¾” Top Spud
- Sweat Solder Adapter with Cover Tube and Wall Flange
- High Copper, Low Zinc Brass Casting for Dezincification Resistance
- 36-hour Sentinel Flush
- (4) AA Alkaline Batteries—Furnished

Electrical Specifications

- Battery: (4) AA Alkaline Batteries
- Solenoid Valve and Sensor, 6V DC
- Battery Service Life: 1.5 ***MILLION*** flushes, up to 10 years

Compliances & Certifications

ADA Compliant

- ADA Compliant
- ASSE 1037/ASME A112.1037/CSA B125.37-2015
- IPC, IRC, and UPC Compliant
- WaterSense Listed - WaterSense compliant when used with a 0.5 GPF WaterSense Fixture

5055 Forsyth Commerce Rd Ste 124, Orlando, FL 32807
Phone: 800.922.9883 | Fax: 866.670.5580 | hydrotekintl.com

Revised 03/18/21

Hydrotek

Sensor Faucets and Flush Valves

HE8200-0.125

0.125 GPF

Battery Powered Flush Valve (Urinal)

Description

Battery powered, sensor operated, water conserving, urinal flush valve for floor mounted or wall hung top spud bowls.

Flush Cycle

- 0.125 GPF
  - * *Flush valves may not function with all bowls. Be sure to verify flow requirements with bowl manufacturer.*
  - * *Flow rate is field adjustable*

Specifications

Exposed, Piston Operated, Chrome Plated, Urinal Flush Valve with the following features:

- Forward Removable Top Cap - No Need for Special ADA Handicap Bars Concessions
- Standard Brass/Chrome Plated All Metal Construction
- Hybrid Piston/Diaphragm Flushing Mechanism
- Reliable, Latching Solenoid Valve
- Standard Manual –Mechanical Override Button
- Field Adjustable to Left or Right Rough-In
- Operating Pressures: 20-125 PSI
- Standard Self-Cleaning Filtering System
- Superior VSI Silicone Elastomer Piston Seals are Unaffected by Chlorine, Chloromines, and Ammonia
- ADA Compliant—Infrared Sensor Operated for “No Hands” operation
- Self Adjusting Sensor
- Adjustable Tailpiece
- ¾” I.P.S. Angle Stop Valve with Vandal Resistant Cap
- High Back Pressure Vacuum Breaker / Flush Tube Connection
- Spud Coupling and Flange for ¾” Top Spud
- Sweat Solder Adapter with Cover Tube and Wall Flange
- High Copper, Low Zinc Brass Casting for Dezincification Resistance
- 36-hour Sentinel Flush
- (4) AA Alkaline Batteries—Furnished

Electrical Specifications

- Battery: (4) AA Alkaline Batteries
- Solenoid Valve and Sensor, 6V DC
- Battery Service Life: 1.5 ***MILLION*** flushes, up to 10 years

Compliances & Certifications

ADA Compliant

ICC ES PMG

WaterSense Meets EPA Criteria

- ADA Compliant
- ASSE 1037/ASME A112.1037/CSA B125.37-2015
- IPC, IRC, and UPC Compliant
- WaterSense Listed - WaterSense compliant when used with a 0.5 GPF WaterSense Fixture

5055 Forsyth Commerce Rd Ste 124, Orlando, FL 32807
Phone: 800.922.9883 | Fax: 866.670.5580 | hydrotekintl.com

Revised 03/18/21

Hydrotek

Sensor Faucets and Flush Valves

HE8200

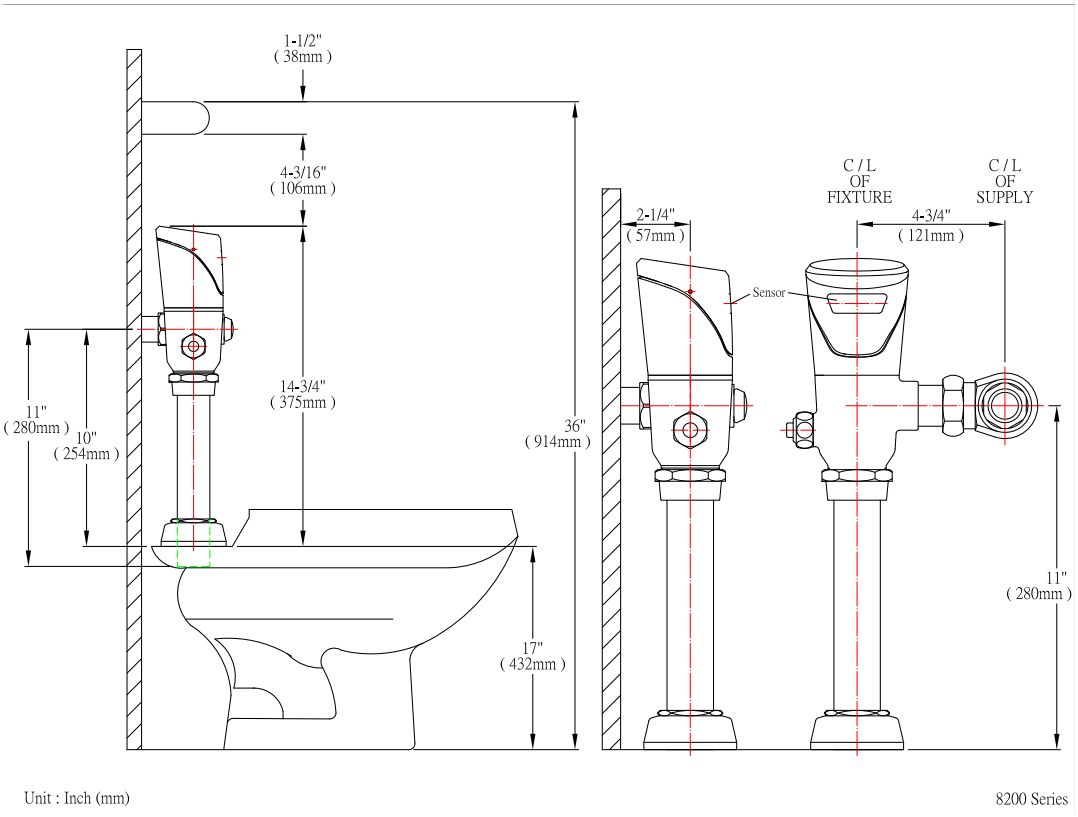
1.6, 1.28, 1.28DF GPF

Battery Powered Flush Valve (Closet)

Rough-in Dimensions

No need for alternate ADA installations!

Forward removable top cap does not interfere with standard grab bar installations.



The information contained within this document subject to change without notice

5055 Forsyth Commerce Rd Ste 124, Orlando, FL 32807

Phone: 800.922.9883 | Fax: 866.670.5580 | hydrotekintl.com

Revised 03/12/21

Hydrotek

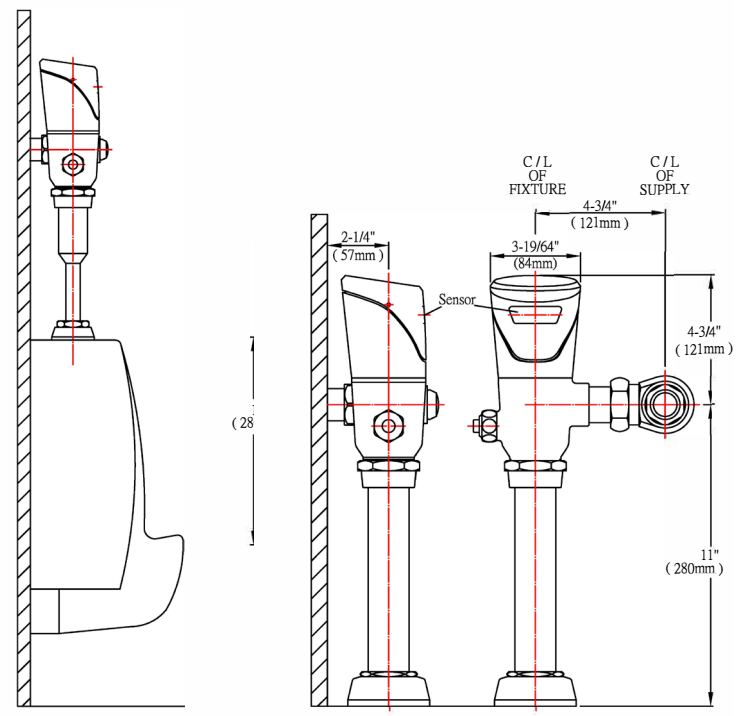
Sensor Faucets and Flush Valves

HE8200

1.0, 0.5, 0.125 GPF

Battery Powered Flush Valve (Urinal)

Rough-in Dimensions



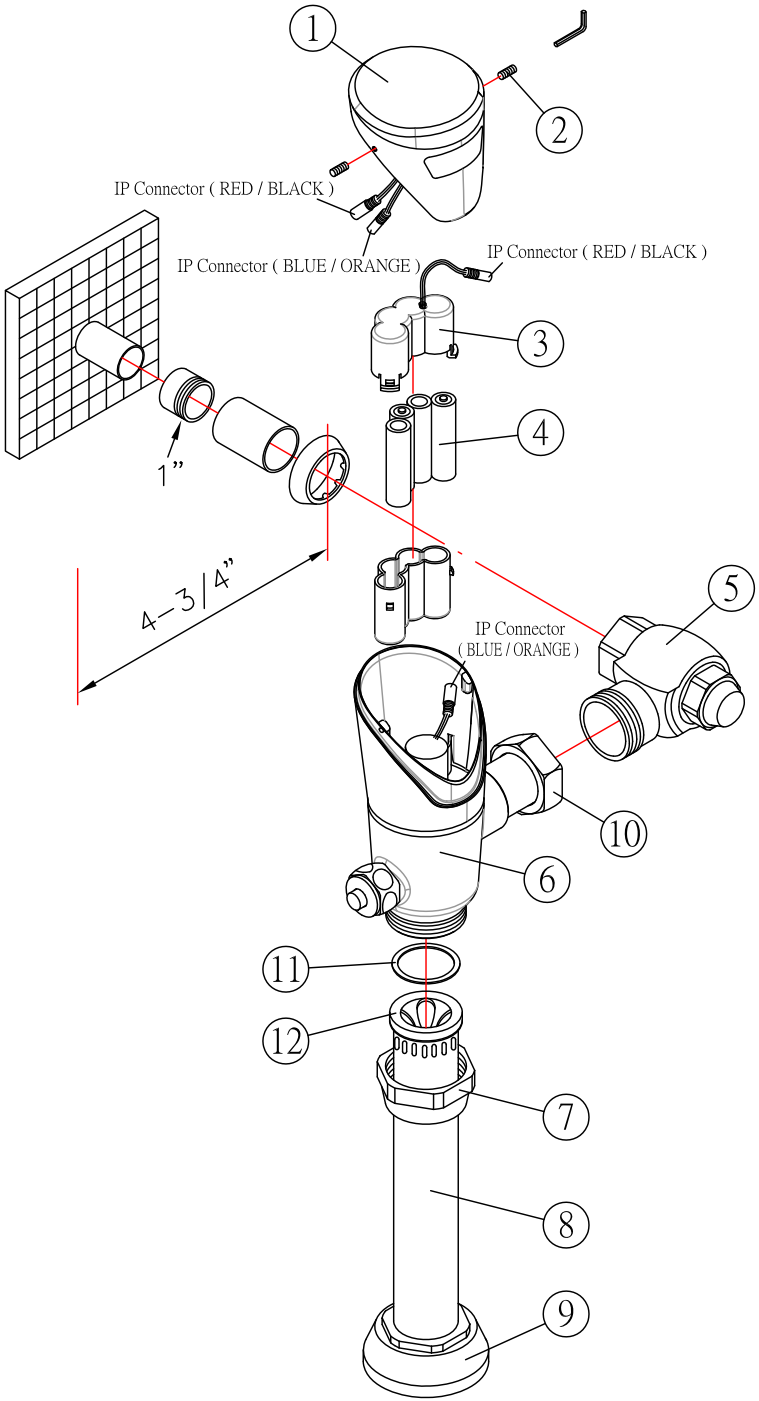
HB8200 Toilet:
3/4" IPS Angle Stop
3/4" Top Squd

Unit : Inch (mm)

8200 Series

5055 Forsyth Commerce Rd Ste 124, Orlando, FL 32807
Phone: 800.922.9883 | Fax: 866.670.5580 | hydrotekintl.com

Revised 03/19/21



HYDROTEK AUTOFLUSH VALVE

Operation and Installation Instructions
For HE-8200 Flush Valve-Battery Powered

A. Operations :

1. The AUTOFLUSH Valve operates by emitting a continuous beam from the sensor.
2. As the user enters the beam’s effective range, a red light flashes one time to alert the user that the Flush Valve is sensing. If the user stays in the range for more than 4 seconds, the beam is reflected into the receiver circuitry and the system goes into a ‘’HOLD” mode as long as the user remains in the range of the sensor. This “HOLD” mode also acts as a safety feature to prevent multiple flushes in the event the sensor is covered or blocked.
3. When the user steps out of range, the sensor sends a signal to the solenoid for a one time flushing cycle operation. The sensor then automatically resets and is ready for the next user.
4. If the MANUAL OVERRIDE button is pushed, the flushing mechanism will be activated without impacting the mode of automatic operation. This TRUE MANUAL OVERRIDE can be used to flush the valve when there is no electricity or if the electrical equipment fails.

B. Installation Instructions :

WARRANTY IS VOID IF PIPE DOPE IS USED DURING FLUSH VALVE INSTALLATION.

1. Install the Stop Valve (5) to the supply line using the Hydrotek Sweat Kit.
2. Connect the Valve Body (6) to the Stop Valve (5) using Slip Joint Nut (10)
3. Attach the Friction Ring (11), Vacuum Breaker (12) and Tailpiece (8) to the Valve Body (6) using Lock Nut (7). Secure the Tailpiece (8) to the plumbing fixture using the Spud coupling (9) provide.
4. Loosen the two screws (2) on the top of Cover (1). Remove the complete Top Cover (1). Install four Alkaline batteries (4) exactly as illustrated. Place Cover(1) back to the top but do no screw. (Set up Auto-Adjust sensor distance by Step C down below).
5. After step C, turn the water on and flush water out to check for leaks. Adjust water flow from Stop Valve (5).
6. Install Cover(1).

C. Auto-Adjust sensor distance :

1. Loosen the two screws (2) on the top of Cover (1). Remove the complete Cover (1). Install four Alkaline batteries (4) exactly as illustrated. The red light will flash quickly for 5 seconds. If it doesn’t flash, check if the batteries install properly.
2. As the red indicator light flash quickly, install Battery Holder (3) and Top Cover (1) into Valve body (6) (Watch out, do not block the sensor eye).
3. As the red indicator light flash frequency gets back to normal, it means the sensor eye is getting started to auto-adjust. Make sure to remove all the non-permanent targets in sensor view area, and the door of this space is closed.
4. When you hear the click sound and the red indicator light doesn’t flash anymore, it means auto-adjust is done, and it is good to use.
5. Stand in front of the Valve and a red light should come on. After 4 seconds, step away and the Flush Valve should flush automatically.

D. Important:

1. The stop valve should never be opened to the point where the water flow exceeds the flow capability of the fixture. The fixture must always be able to accommodate the continuous water flow from the valve in the event of a valve failure. Should the fixture overflow happen due to water exceeding the capability of the fixture or the drain pipe, Hydrotek will not be responsible for any flood damages.
2. The Flush Valve contains mechanical and electrical parts that are subject to normal wear. These parts should be checked regularly (1 year is recommended) and replaced as needed to maintain the Valves performance. Call 800-922-983 for further details.
3. Do not use abrasives, acids or cleaning fluid to clean the Hydrotek Flush Valve as they may dull the luster and attack the chrome or special finishes. Use only soap and water then wipe with clean cloth or towel.
4. Sensor eye distance and flush volume/time are factory setting. If a range adjustment is required, consult your agent or seller.

※ If you have any questions about installation, please contact your agent or seller.

HYDROTEK INTERNATIONAL, INC.
5055 Forsyth Commerce Road, Suite#124
Orlando, FL 32807
800-922-9883
866-670-5580(Fax)

8200 Series

Sensor Operated Flush Valve

Troubleshooting Guide

Normal Operation: When power is connected, the flush valve will immediately perform diagnostic function. You will hear a clicking sound and see lights flash. When the sensor is activated, the light will flash once and the valve will flush. The red indicator light will flash when the batteries are low.

Problem	Possible Cause	To Diagnose	Remedy
Valve will not turn on:	Water not turned on	Check water supply	Turn water on
	Power supply failure	No light, no clicking: • Check batteries • Check power adapter	Reinstall or replace batteries/ Replace power adapter
	Low battery	Light continues to flash	Replace batteries
	Electronic PCB / Sensor is defective	No light, no clicking: • Reinsert batteries • Reattach power adapter	Replace electronic PCB
	Solenoid valve is clogged	Solenoid is clicking but no water is coming out	Clean solenoid
	Solenoid coil is defective	Insert new batteries or reattach power adapter. Light blinks but no solenoid is clicking	Replace solenoid coil
Valve will not shut off:	The solenoid valve is normally closed. Turn off water and activate the valve. If there is a clicking sound, the solenoid valve is dirty. If there is no clicking sound, then check the solenoid valve. If water is leaking through, the solenoid valve is dirty and needs to be serviced. Other factors include: • Sensor distance is too long • Control module is defective • Manual override button is sticking		

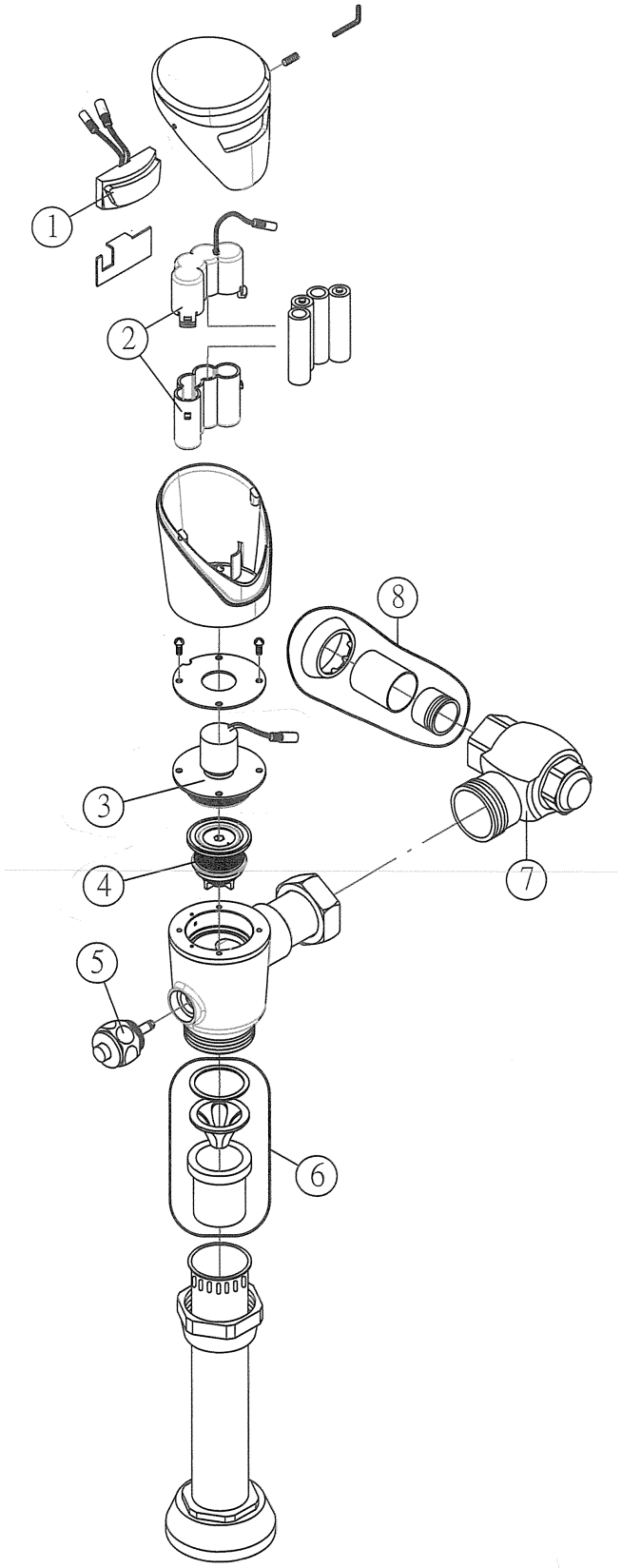
IMPORTANT: Periodic maintenance is required for smooth and trouble-free operation of this flush valve.

For service and inquiry about available repair kits, please call Hydrotek Technical Support at (800) 922-9883.

8200 Series

Sensor Operated Flush Valve

Assembly Parts



No	Description	Part Number
1	Control Module + Sensor Eye	HCE-080B
2	Battery Holder	HCE-104
3	Solenoid Coil + Pressure Relief Valve	HCE-098
4	Hybrid Control Disc Assembly	HCE-102
5	Manual Push Button	HC-089
6	Vacuum Breaker Assembly	HC-086
7	Angle Stop Assembly	HC-082A (3/4”) HC-082B (1”)
8	Sweat Kit Assembly	HC-084 (3/4”) HC-084B (1”)

Please visit our website, www.hydrotekintl.com, for our most current Products Pricing Sheet.