INSTALLATION AND MAINTENANCE GUIDE

VENUS COMFORT 2032 / E / P / PE / K / KE

ELECTRONIC FLUSH VALVE FOR WC

STERN

STERN ENGINEERING LTD.

INDEX

OPERATION

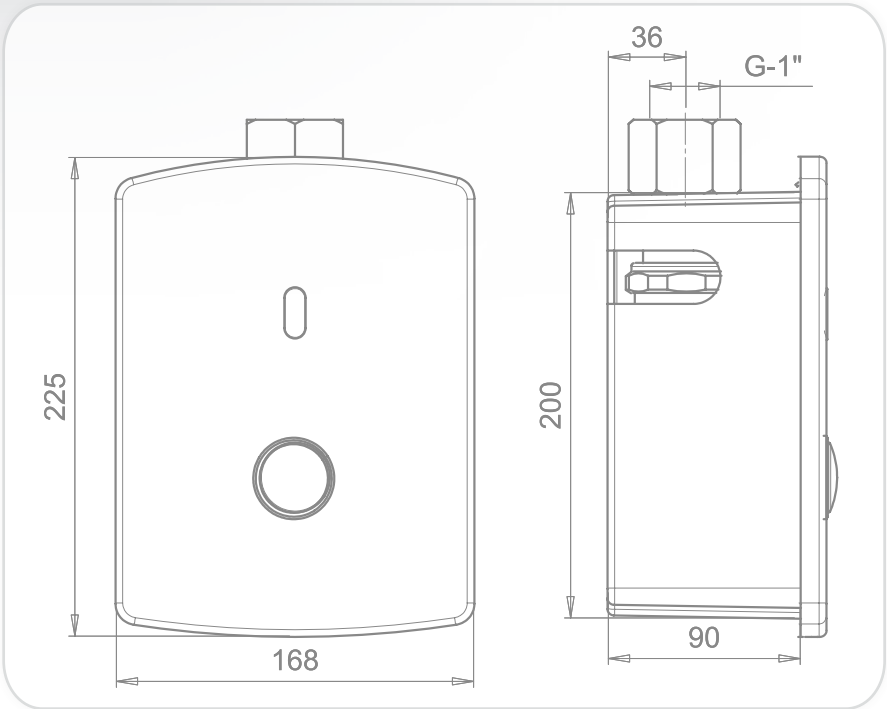
Venus Comfort is a touch free electronic flush valve for W.C. Water will start flushing when the user will walk away from the W.C.

Venus Comfort includes a mechanical override push button for alternative manual operation.

Venus Comfort P includes a piezo button for alternative touch operation.

Once the manual push button / piezo button has been used, the system will discharge a full flush.

TECHNICAL DATA

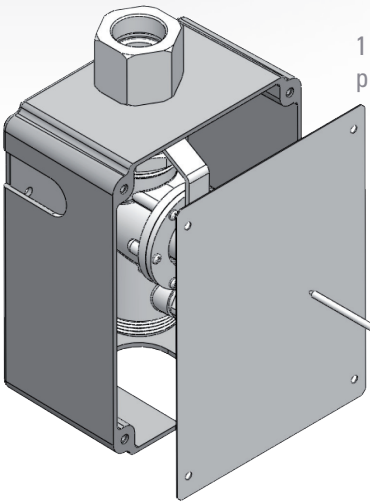


Power specification:	9V low voltage system
Power Supply:	Internally mounted 9V battery or 9V transformer Optional : 6 x 1.5 AA batteries
Operating water pressure:	1.0-8.0 bar (14.5 – 116.0 PSI). With water pressure of more than 8 Bars, use a pressure reducing valve for reduction.
Sensor range:	700 mm Factory set. Adjustable
Minimum sensor range:	300 mm
Maximum sensor range:	800 mm

PACK CONTENTS
VENUS COMFORT 2032 / 2032 E

Familiarize yourself with the part names and confirm that the parts are included:

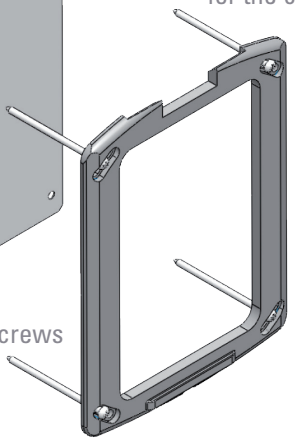
1 x Plastic box
with concealed flush valve



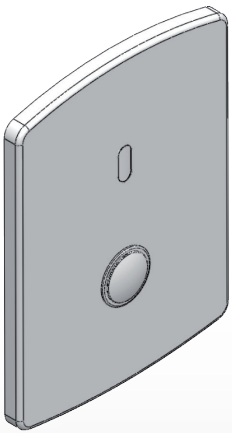
1 x Temporary
protective panel

1 x Allen key

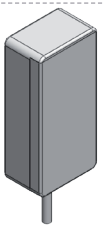
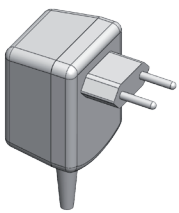
1 x Plastic seat
for the cover plate



1 x Wall cover plate
with the electronic unit



4 x Screws

B VERSIONS	E VERSIONS
	
9V Battery box	Transformer

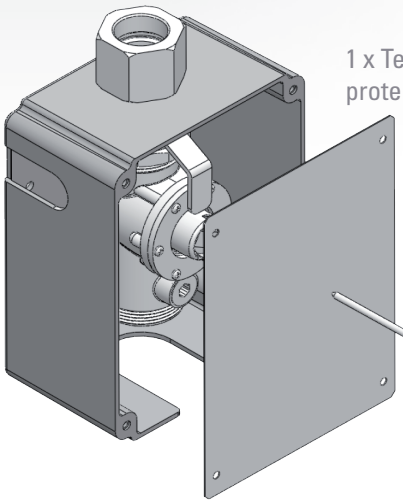
Adjusting screw

1 x Screw M4x10

PACK CONTENTS
VENUS COMFORT 2032 P / 2032 PE

Familiarize yourself with the part names and confirm that the parts are included:

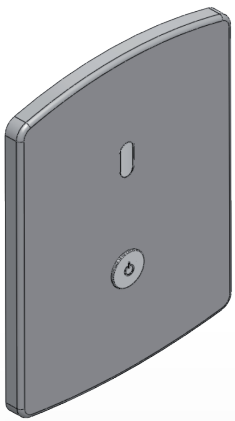
1 x Plastic box
with concealed flush valve



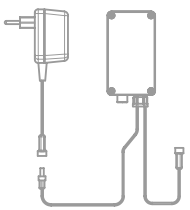
1 x Temporary
protective panel

1 x Plastic seat
for the cover plate

1 x Wall cover plate
with the electronic unit



4 x Screws

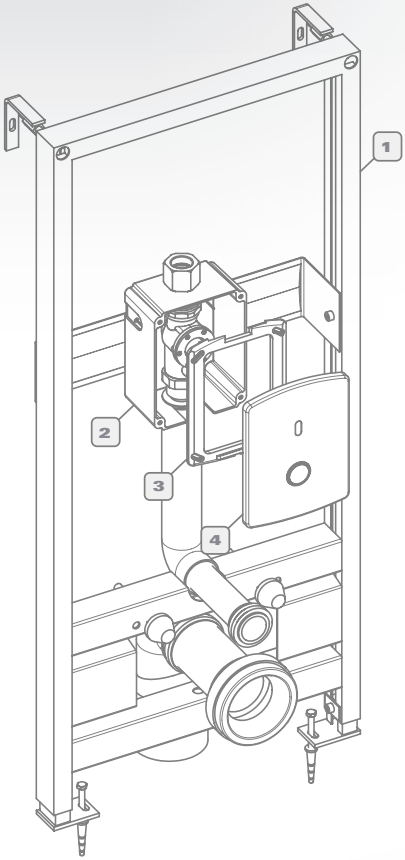


B VERSIONS	E VERSIONS
9V Battery box	Transformer and back up device

1 x Allen key

1 x Screw M4x10

VENUS COMFORT 2032 K / KE
WITH IRON FRAME



1 x Iron frame
and accessoires

2 1 x Plastic box
with concealed flush valve

3 1 x Plastic seat
for the cover plate

4 1 x Wall cover plate
with the electronic unit

Note:

1. Keep a minimum distance of 500mm between the upper surface of the bowl and the infra red sensor.
2. The maximum thickness of the plaster wall covering the frame should be up to 50mm.

PRE–INSTALLATION INFO

Check contents

Separate all parts from packaging and check each part with the pack contents section.

Make sure all parts are accounted for before discarding any packaging material. If any parts are missing, do not attempt to install the electronic flush valve until you obtain the missing parts.

Warnings

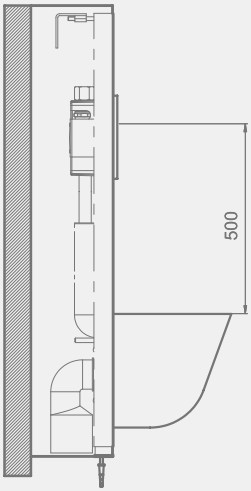
Do not install the system facing a mirror or any other electronic system operated by an infra-red sensor.

To prevent reflection problems, it is recommended to keep a minimum distance of 1.50 meters between the flush valve and other objects.

Preparation for installation

Flush water supply lines thoroughly before installing the flush valve. Do not allow dirt, Teflon tape or metal particles to enter the flush valve.

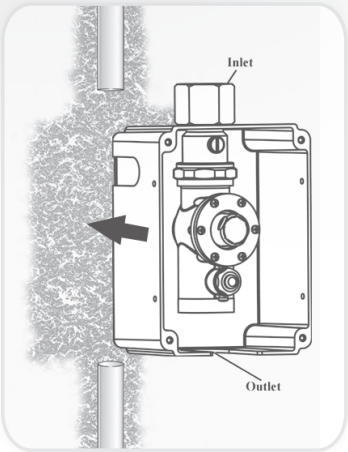
All plumbing is to be installed in accordance with applicable codes and regulations.



Keep a minimum distance of 500mm between the upper surface of the bowl and the infra red sensor.

Important: For the optimal performance of this flush valve, the entire piping infrastructure from the main big water-supply pipe down to the W.C. would have **1"** diameter.

Step 1 – Installing the flush valve and connecting the water supply



1) Shut off the water supply.

2) Cut an adequate opening in the wall for the dimensions of the box and the sleeve (not supplied).

3) Insert the electronic flush valve's box through the opening.

4) Connect the flush valve inlet to the water supply.

5) Connect the flush valve outlet nipple to the pipe leading to the W.C.'s inlet.

6) Turn on the water supply. Make sure there is no water leakage.

7) Assemble the temporary protective cover to protect the flush valve.

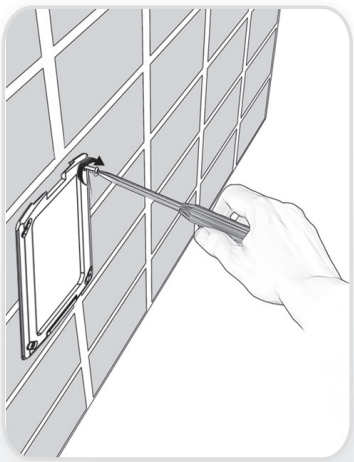
Step 2 – Connecting the power source

1) Once the electricity, plumbing and tiles works are finished, replace the temporary protective cover with the plastic seat. Adjust it using the four screws provided.

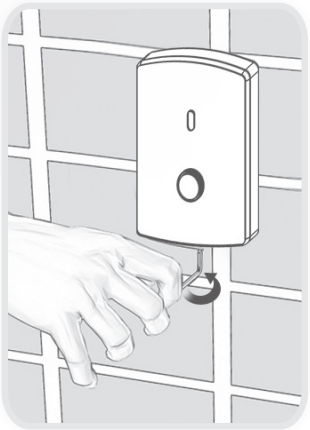
2) If your model is operated by transformer, place the transformer cable near the electricity plug and thread the transformer's wire to the box.

3) Connect the electronic unit connector that leads to the solenoid valve to the solenoid connector.

4) Connect the other electronic unit connector to the power supply (battery or transformer).



5) Before you assemble the wall cover panel, consider to use the provided adjusting screw in order to optimize the operation of the mechanical button. If needed, assemble the adjusting screw to the mechanical button at the internal side of the panel and adjust it to the desired distance.

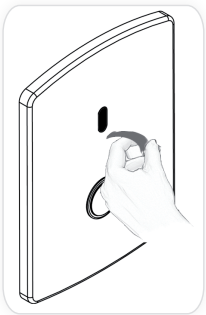


6) If your model is operated by battery, insert the battery into the battery box.

7) Assemble the wall cover panel to the cover seat and tighten it with the bottom screw.

8) If your model is operated by transformer, plug the transformer to the main electricity supply.

Important: To prevent the sensor from entering into adjusting mode, do not step or put your hand within the sensor range for 5 seconds after the connection of the power supply.



9) Remove the protective sticker covering the sensor and move away from the sensor range.

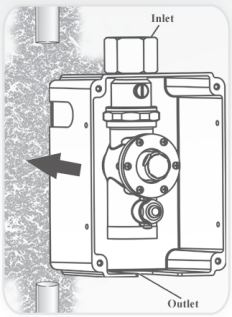
10) Move away from the sensor to activate the flush valve. The valve will flush a few seconds after your departure.

11) If needed adjust the flow capacity by turning the regulating valve.

12) If the range is unsatisfactory, refer to the section entitled “Range adjustment”.

Step 1 – Installing the flush valve and connecting the water supply

1) Shut off the water supply.



2) Cut an adequate opening in the wall for the dimensions of the box and the sleeve (not supplied).

3) Insert the electronic flush valve's box through the opening.

4) Connect the flush valve inlet to the water supply.

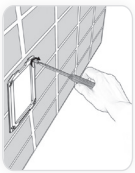
5) Connect the flush valve outlet nipple to the pipe leading to the W.C.'s inlet.

6) Turn on the water supply. Make sure there is no water leakage.

7) Assemble the temporary protective cover to protect the flush valve.

Step 2 – Connecting the power source

1) Once the electricity, plumbing and tiles works are finished, replace the temporary protective cover with the plastic seat. Adjust it using the four screws provided.

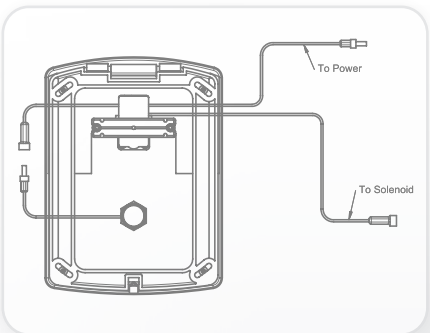


2) Now, connect the connectors going out from the electronic unit:

a. Connect the blue cable connector to the blue cable connector coming out from the piezo button.

b. Connect the electronic unit connector that leads to the solenoid valve to the solenoid valve connector.

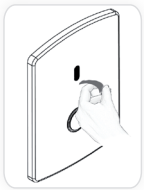
c. Connect the electronic unit connector that leads to the power source to the battery box connector.



3) Insert the battery into the battery box.

4) Assemble the panel to the cover seat. Do not tighten the bottom screw yet.

5) Remove the protective sticker covering the sensor and move away from the sensor range.



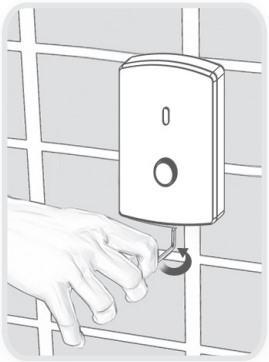
6) To prevent the sensor from entering into adjusting mode, do not step or put your hand within the sensor range for 5 seconds after the connection of the power supply.

7) To operate, step within the sensor range for a minimum of 8 seconds. Move away and the flush valve will flush a few seconds after your departure.

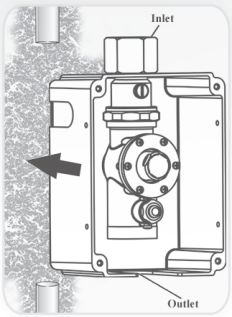
8) If needed adjust the flow rate by turning the regulating valve.

9) If the range is unsatisfactory, refer to the section entitled “Settings Adjustment”.

10) Tighten the panel to the cover seat with the bottom screw.



Step 1 – Installing the flush valve and connecting the water supply



1) Shut off the water supply.

2) Cut an adequate opening in the wall for the dimensions of the box and the sleeve (not supplied).

3) Insert the electronic flush valve's box through the opening.

4) Connect the flush valve inlet to the water supply.

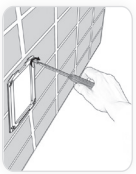
5) Connect the flush valve outlet nipple to the pipe leading to the W.C.'s inlet.

6) Turn on the water supply. Make sure there is no water leakage.

7) Assemble the temporary protective cover to protect the flush valve.

Step 2 – Connecting the power source

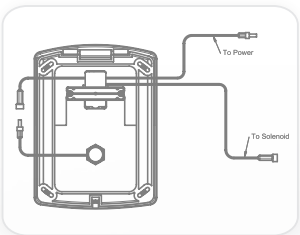
1) Once the electricity, plumbing and tiles works are finished, replace the temporary protective cover with the plastic seat. Adjust it using the four screws provided.



2) Connect the following connectors coming from the electronic unit:

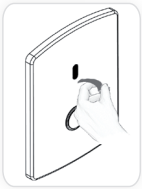
a. Connect the blue cable connector to the blue cable connector coming out from the piezo button.

b. Connect the electronic unit connector that leads to the solenoid valve to the solenoid valve connector.



3) Assemble the panel to the cover seat and tighten it with the bottom screw.

5) Remove the protective sticker covering the sensor.



6) Connect the electronic unit connector that leads to the power source to the battery back up device connector.
Connect the other connector coming from the battery back up device to the transformer connector.

7) Before inserting the six 1.5V batteries to the battery back up device, plug in the transformer. Now, insert the batteries into the battery back up device box.

8) To prevent the sensor from entering into adjusting mode, do not step or put your hand within the sensor range for 5 seconds after the connection of the power supply.

9) To operate, step within the sensor range for a minimum of 8 seconds. Move away and the flush valve will flush a few seconds after your departure.

10) If needed adjust the flow rate by turning the regulating valve.

11) If the range is unsatisfactory, refer to the section entitled “Settings Adjustment”.

RANGE ADJUSTMENT

The sensor range is the greatest distance that an object can be away from the sensor to activate the flush valve. The sensor is factory preset. If necessary, it may be adjusted as follows:

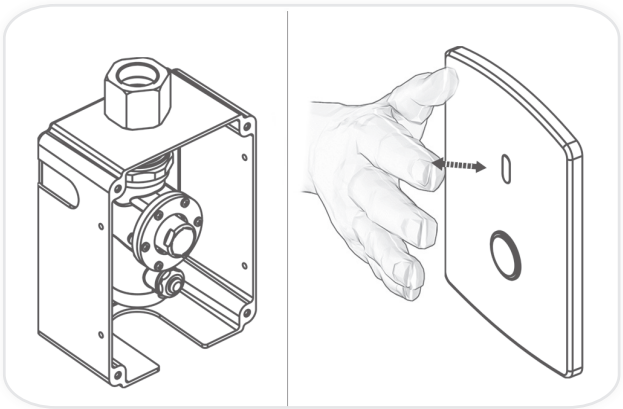
Adjusting the sensor range:

1) If your model is a battery operated model, disconnect the battery from the sensor.

2) Make a short circuit between the (+) and the (-) of the sensor. You can use a screw driver or another conductor material to make this short circuit.

If your model is a transformer operated model, after disconnecting the power supply, activate the sensor three or four times.

<u>Do not</u> make a short circuit on the power supply or on the sensor when the power supply is connected to the sensor.



3) Reconnect the power supply (battery or transformer) to the sensor.

4) To enter the adjusting mode, put your hand in front of the sensor at a distance of 2"(5cm) to 4"(10cm) within 5 seconds from the reconnection of the power supply.

Note: If you will not put your hand in front of the sensor after connecting the power supply, the sensor will not enter into adjusting mode and the previous adjustment will continue.

5) When the sensor enters adjusting mode and your hand is in front of the sensor, a slow flashing of the red light in front of the sensor will occur.

6) Keep your hand in front of the sensor until the slow flashing changes to quick flashing. At this point, move your hand to the required distance from the sensor and wait until the red light will stop flashing.

7) When the red light has turned off, the sensor is adjusted to the required distance.

8) Check the distance you have set and if it is not satisfactory, repeat steps 1-6.

SETTINGS ADJUSTMENT

Adjusting the sensor range with the remote control

In order to adjust the sensor with a Remote Control you should hold the Remote Control straight in front of the sensor in a distance of about 6-8" (15-20cm). Choose the function you want to adjust by pressing once on one of the function buttons. After pressing once on a specific function button, a quick flashing of the red light in front of the sensor will occur.

At this stage, you can change the adjustment by pressing the (-) or (+) buttons, every push will increase or decrease one level. After finishing the adjustment, turn on the water supply.

SETTINGS ADJUSTMENT

DETECTION RANGE: Only if necessary, use the remote control to adjust the sensor range as follows:

Press the RANGE button. Wait until a quick flashing of the red light of the sensor eye is perceived. At this stage, you can increase or decrease the sensor range by pressing the (+) or the (-) buttons, every push will increase or decrease one level.

Note: Once you have changed the detection range with the remote control, this distance will be remembered by the sensor, even if the power source is disconnected.

Adjusting other settings with the remote control

FULL FLOW TIME: This function determines the water flushing time once the user leaves the W.C. Press the two waves button. Wait until a quick flashing of the red light of the sensor eye is perceived. Then, press + to increase the flow time and – to reduce it.

DELAY IN TIME: This function changes the time interval in which the sensor will activate the system if the user is detected for the preset amount of seconds.

If required, the delay in time can be modified as follows:

Press the IN button. Wait until a quick flashing of the red light of the sensor eye is perceived. Then, press + to increase the delay in time and – to reduce it.

SETTINGS ADJUSTMENT

DELAY OUT TIME: This function allows modifying the time the flush valve will deliver water after the user leaves the W.C. In this case, a delay out time close to 0 will not give the user the possibility to be away from the sanitary. An increased delay out time will make the user experience more comfortable, but high traffic of users should be taken into consideration. If required, the delay out time can be modified as follows:

Press the OUT button. Wait until a quick flashing of the red light at the sensor eye is perceived. Then, press + to increase the delay out time and – to reduce it.

TEMPORARY OFF FUNCTION: This function is ideal to perform any kind of activity in front of the sensor without operating the system (for example, cleaning).

The flush valve will remain shut for 1 minute when this button is pressed once. To cancel this function and to return to normal operation press the On/Off button again or wait 1 minute.

RESET BUTTON: This function restores all the factory settings except for the sensor range. If required, press the Reset button and without releasing it, press the + button once.

BATTERY REPLACEMENT

Battery replacement instructions – Venus Comfort 2032 / 2032 P

When the battery weakens, the red indicator light will blink at a constant rate. The battery must be replaced within two weeks. Always use batteries from a reputable source. Poor quality batteries may affect the performance of the product.

To replace the battery:

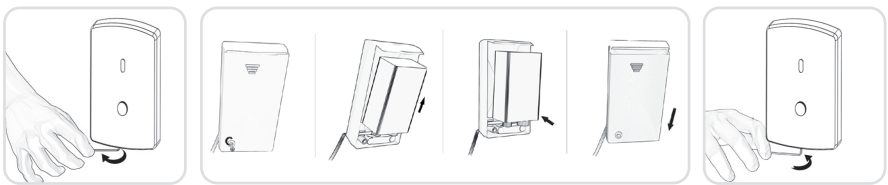
1. Release the screw at the bottom of the cover plate and remove the cover plate.

2. Carefully open the battery box.

3. Replace the used battery with a new 9V battery (Lithium battery is recommended).

4. Close the battery box.

5. Refit the wall cover plate.



Important: Spent batteries should not be disposed of with normal household waste. Contact your local authority for information on waste disposal and recycling.

MAINTENANCE

Care and cleaning of chrome and special finishes

DO NOT use steel wool or cleansing agents containing alcohol, acid, abrasives, or the like. Use of any prohibited cleaning or maintenance products or substances could damage the surface of the flush valve. For surface cleaning use ONLY soap and water, then wipe dry with clean cloth or towel. When cleaning bathroom tile, the flush valve should be protected from any splattering of harsh cleansers.

If system chemical disinfection is practiced, chlorine can be used (calculated chlorine concentration of 50mg/l maximum in water per one hour dwell time) at service interval frequency.

WARRANTY

Y. Stern Engineering Ltd. warrants that its electronic faucets, flush valves and controls will be free of defects in material and workmanship during normal use for two years from the date the product is purchased.

If a defect is found in normal use, Y. Stern Engineering Ltd. will, at its discretion, repair, provide a replacement part or product, or make appropriate adjustments. Damage caused by accident, misuse, or abuse is not covered by this warranty. Improper care and cleaning will void the warranty. Proof of purchase (original sales receipt) must be provided to Stern Engineering Ltd. with all warranty claims.

Stern Engineering Ltd is not responsible for labor charges, installation, or other incidental or consequential costs other than those noted above. In no event shall the liability of Stern Engineering Ltd. exceed the purchase price of the faucet, valve or control.

If you believe that you have a warranty claim, contact your Stern Distributor, Dealer or Plumbing Contractor. Please be sure to provide all pertinent information regarding your claim, including a complete description of the problem, the product, model number, the date the product was purchased, from whom the product was purchased and the installation date. Also include your original invoice.

Y. STERN ENGINEERING AND/OR SELLER DISCLAIM ANY LIABILITY FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. This warranty excludes product damage due to installation error, incorrect maintenance, wear and tear, battery, water composition, product abuse, or product misuse, whether performed by a contractor, service company, or the consumer. This warranty does not cover product damage caused by the following:

- Incorrect installation, inversions of supply pipes.
- Pressures or temperatures exceeding recommended limits.
- Improper manipulation, tampering, bad or lapsed maintenance.
- Foreign bodies, dirt or scale introduced by the water supply.

SPARE PARTS LIST

VENUS COMFORT 2032 \ VENUS COMFORT 2032 E

Panel Kit + Screw Kit	07040114 + 07040114
Sensor Kit	07220057
Solenoid Valve Kit with Acetal Body	07230015
Piston Kit	07290033
Piston + Piston Cover Kit	07290048
Push Button Kit	07245018
Push Button Kit for Panel	07245003
Battery Box	06530008
Transformer	06522042
Back Up Device	06530033

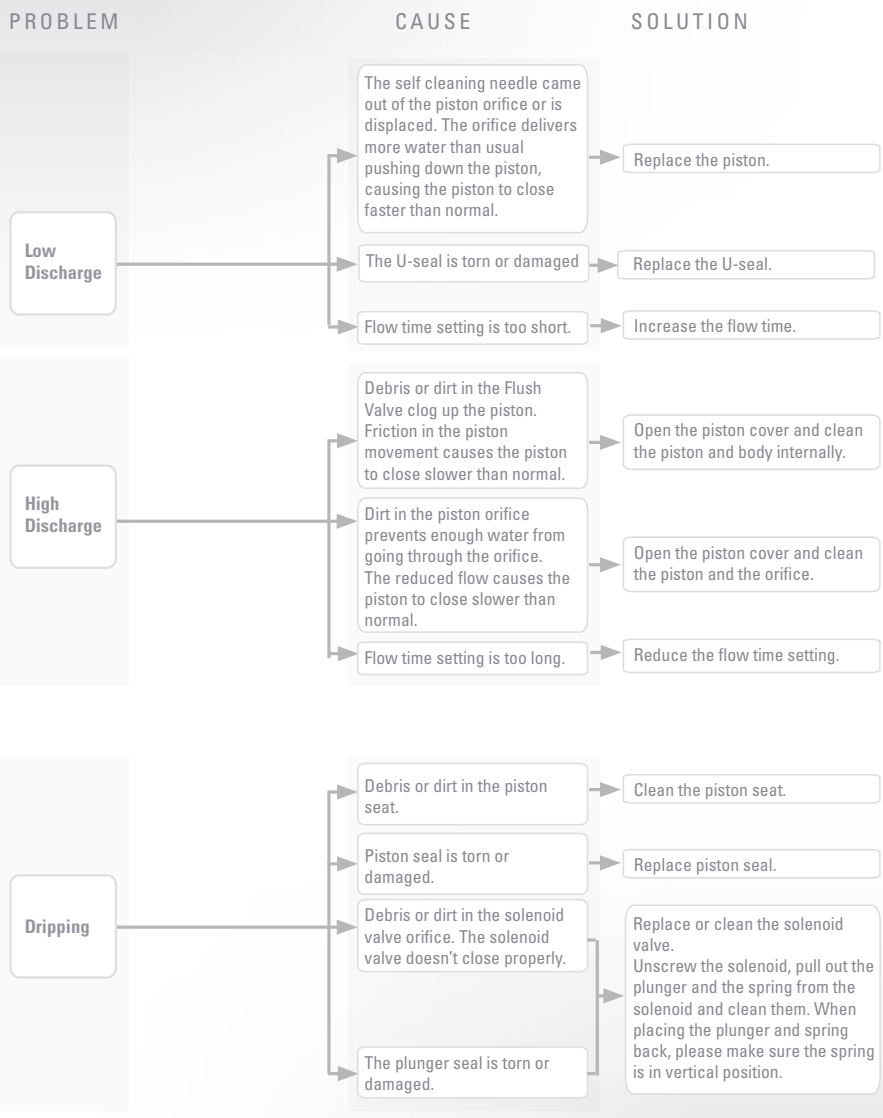
VENUS COMFORT 2032 P \ VENUS COMFORT 2032 PE

Panel Kit	07040140
Sensor Kit	07220078
Solenoid Valve Kit with Acetal Body	07230015
Piston Kit	07290038
Piston + Piston Cover Kit	07290049
Piezo Button	07225009
Battery Box	06530008
Transformer	06522042
Back Up Device	06530033

TROUBLE – SHOOTING

PROBLEM	INDICATOR	CAUSE	SOLUTION
Valve does not flush	The red LED indicator in the sensor blinks continuously when the user steps within the sensor's range.	Low battery.	Replace battery.
	The red LED indicator in the sensor does not blink when the user steps within the sensor's range.	Inappropriate sensor range.	Increase or decrease the sensor range.
		Battery is completely used up.	Replace battery.
		The sensor is picking up reflections from a mirror or another object.	Eliminate cause of reflections.
	The red LED indicator in the sensor blinks when the user steps within the sensor's range.	Connectors between the electronic unit and the solenoid valve are disconnected.	Connect the connectors of the electronic unit to the solenoid valve.
		Debris or dirt in the solenoid valve clog up the bleeding hole.	Replace or clean the solenoid valve. Unscrew the solenoid, pull out the plunger and the spring from the solenoid and clean them. When placing the plunger and spring back, please make sure the spring is in vertical position.
		The water supply pressure is higher than 8 bars or pressure peaks over 8 bars in the water supply causes pressure to be trapped in the flush valve.	Reduce the water supply
Continuous Flow	The red LED indicator in the sensor blinks when the user steps within the sensor's range.	Debris or dirt in the Flush Valve clog up the piston or the orifice. The piston doesn't close.	Open the piston cover and clean the piston, the orifice and body internally.
		Debris or dirt in the solenoid valve. The solenoid valve doesn't close.	Replace or clean the solenoid valve. Unscrew the solenoid, pull out the plunger and the spring from the solenoid and clean them. When placing the plunger and spring back, please make sure the spring is in vertical position.

TROUBLE – SHOOTING



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