

Acme Sanitary Ware Co. Ltd.

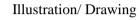
1/F, Acme Building, 22-28 Nanking Street, Kowloon, Hong Kong Tel: 2388 7171 Fax: 2710 8012 Email: acme@acmesanitary.com.hk Since 1949 Website: www.acmesanitary.com.hk

American Standard

PROJECT	REF	REV	ITEM CODE	
LOCATION	DATE		PAGE	

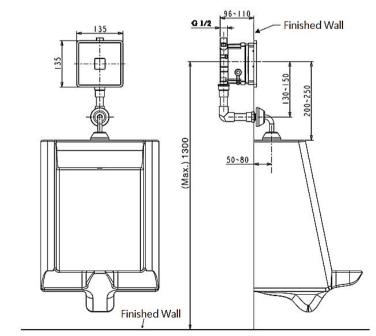
SANITARY WARE SPECIFICATION SHEET

Item Descriptions American Standard (PRC) 3 LPF PSD concealed urinal sensor flush valve; 220V AC supply with AC transformer; complied with BS EN 15091 & **QB 2948-2008**; test report 221176PC220064(1); nominated flow rate 1.2 L/cycle in WELS Grade 1; Registration No. 1U 23-0014 L135 x W110 x H135 mm Dimensions Model FFAS8704-0S0500BF0 (Sensor) FF1-CN521X0030150P (Adaptor) Finish Satin / Chrome Plated Manufacturer American Standard (PRC) Source Acme Sanitary Ware Co. Ltd Mr. Eric Wong/ Mr. Don Yuen Contact Tel/Fax (852) 2388-7171 / (852) 2710-8012 E-mail acme@acmesanitary.com.hk Website www.acmesanitary.com.hk







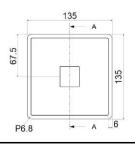


Detail specifications

- · PSD Concealed Urinal Sensor Flush Valve
- · Plastic body
- Sensor distance: 60±15%cm
- DC 6V /AC220V (Not included battery)
- · Standby energy consumption <0.2mW
- · Water inlet: G1/2"
- · Water pressure: 0.05~0.9MPa
- Flow rate (L): 0.75~1.5, at 0.1MPa

Standards Criteria

BS EN15091 /QB 2948-2008



Note: The Battery does not included.

^{*} All information of the above is for the reference only. No prior notice is made if any changes.



自願參與用水效益標籤計劃 -小便器用具 Voluntary Water Efficiency Labelling Scheme - Urinal Equipment







/ Brand

American Standard

/ Model

FFAS8704-0S0500BF0

/ Category

/ Country or Region Origin

China

在用水效益標籤上展示的標誌

Symbolic Presentation on the Water Efficiency Label

滴水點

Water droplet(s)

用水效益級別

Water Efficiency Grade

沖水量

Water Flush Volume

1.2

公升/循環 litres/cycle

簽發日期: Date of Issue:

9 June 2023



Water Supplies Department

水務署署長(林麗恒代行) for Director of Water Supplies

The above urinal equipment is operated with a smart demand operation to achieve additional water saving.



水務署 Water Supplies Department

總部 Headquarters

香港灣仔告士打道七號入境事務大樓 48 樓

19/15 Immigration Tower, 7 Gloucester Road, Wan Chai, Hong Kong



21/2022 T/J(1096/2022)

電話

pa.

2824 0578

22 December 2022



Dear Sir,

Approval of "AMERICAN STANDARD" Sensor Flush Valve (General Acceptance No. C20221162F)

Your letter ref. WRC/2779 dated 23 September 2022 and subsequent submissions received by this department up to 24 November 2022 refer.

Having considered the test report ref. 220193PC220007B issued on 14 November 2022 by Fugro Technical Services Ltd., this Authority accepts that the fitting described below complies with, and its use when correctly installed does not contravene, the Waterworks Ordinance and Regulations.

Name of Manufacturer:

Jiangmen LIXIL AS Sanitary Fitting Manufacturing Co

Ltd

Country of Origin:

the Mainland of China

Brand:

American Standard

Details of Fitting:

1/2" Sensor flush valve for urinal

Model:

FFAS8704-0S0500BF0

Body Markings:

American Standard

Expiry Date:

14 March 2027





Proviso:

As the fitting has not been tested for use in contact with water intended for human consumption, the fitting can only be used in flushing water plumbing systems.

This Authority hereby permits the use of the above fitting in flushing water plumbing systems subject to full adherence to Waterworks installation requirements. In particular, you are required to draw your customers' attention to the following requirement-

"Installation of filter before flushing valve is required. Without the filter, the flushing valve is liable to leak. The installed filter need frequent inspection and cleaning to maintain flushing supply. Normally only public toilets with good management system for maintenance would be considered."

"A stop cock or gate valve must be installed at the upstream of the fitting for manual isolation of water supply."

"The design flushing volume of the flushing valve should be compatible with the toilet bowl to ensure that effective clearance can be achieved by a single flush of water."

"Flushing valve should be used within the range of working pressures specified by the manufacturer." AND

"Installation of electronic opening and closing sanitary tapware should also comply with the requirements of Electrical & Mechanical Services Department."

A condition of this acceptance is that the fitting to be installed shall be replicas of the sample as certified by the testing agent mentioned above and without modifications. This acceptance may be withdrawn at any time if the standard of the fitting installed fails to meet that of the approved sample or if the fitting is found to be unsuitable for use in flushing water plumbing systems.

For the use of the fitting in any project, the General Acceptance Number of this letter must be quoted as a means of identification of acceptance of the fitting by this Authority. Should you have any enquiries, please contact our Engineer Ms Winnie LO at tel. no. 3583 4086.

Yours faithfully,

(YAU Hau Yin)

for Director of Water Supplies

Encl.

c.c. WSD 3321/1/82] - without catalogue

ME/MC] - with soft copy only



FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

FUGRO TECHNICAL SERVICES LTD. Certified True Copy of Test Report

ame/Title: Its No

Page

REPORT ON TESTING OF SENSOR FLUSH VALVE FOR URINALS

Information Supplied by Client

Client

Client Ref.

Report No.

Client Address

Project Testing of Sensor Flush Valve for Urinals Sample Description 1/2" Concealed Sensor Urinal Flush Valve

Brand Name American Standard FFAS8704-0S0500BF0 Model

D/0003/22/FO/MH

: 221176PC220064(1)

American Standard Body Marking

Country of Origin.

Manufacturer Jiangmen LIXIL AS Sanitary Fitting Manufacturing Co., Ltd.

Laboratory Information

Lab. Sample I.D. PC220064/1 Date Received 10 January 2022 Date Test Started 21 March 2022 Date Test Completed 23 May 2022

Test Method Ref. to BS EN 15091: 2013

By direct Measurement

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FUGRO TECHNICAL SERVICES LTD. Certified True Copy of Test Report

Client Ref. : | D/0003/22/FO/MH Report No. : 221176PC220064(1)

Mechanical Endurance Test (Endurance Test of the Operating Mechanism) (BS EN 15091: 2013 clause 6.8)

	Test	Test Test Flus			BS EN Requi	rements
Test Cycle	Temperature (°C)	Pressure (bar)	and flow rate before 500000 cycles	Test Temperature (°C)	Test Pressure (bar)	Flush Volume and flow rate
500000	23	2.5	Flow rate 0.16 & /s Flush Volume 1,15 &	<25	2.5±0.2	- Flow rate min.0.15(ℓ /s) - Flush Volume 0.75-1.5(ℓ)

Name/Title: Oping Date: 09 Aug 2022

Test Cycle		Flush Volume and flow rate after 500000 cycles	BS EN Requirements		
	Observation		Observation	Flush Volume and flow rate	
After 500000	The urinal flush valve was no leakage and no failure of any component part of it	- Flow rate 0.15 £ /s - Flush volume 1.1 £ - In Change of Flush Volume 15%	No Component shall break, and the urinal flush valve shall continue to operate	- Flow rate min.0.15(£ /s) - In Change of Flush Volume	

Leaktightness of Urinal Flush Valve Upstream of the Obturator (After 500000 cycles)

/BS EN 15091 : 2013. Clause 4.6.4)

Applied Pressure (bar)	BS EN Requirement (bar)	Duration (sec)	BS EN Requirement (sec)	Observation	BS EN Requirement	Test Results
16	16±0.5	60	60±5	No Leakage at the obturator No Leakage or seepage through the walls	There shall be no leakage at the obturator and on leakage or seepage through the wall	Pass

Leaktightness of Urinal Flush Valve Downstream of the Obturator (After 500000 cycles)

R9 EM 1203	1:2013, Glause	4,5.5)				
Applied Pressure (bar)	BS EN Requirement (bar)	Duration (sec)	BS EN Requirement (sec)	Observation	BS EN Requirement	Test Results
4	4±0.2	60	60±5	No leakage or seepage through the	There shall be no leakage or seepage	Pass
0.2 50	0.2±0.05			Cwalls	through the wall	

The report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

Ng Shu Shing Chris

Assistant Manager (Plumbing Components)

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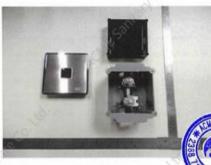
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Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Client Ref.: D/0003/22/FO/MH Report No.: 221176PC220064(1)





Test Sample



Valve Cartridge



Body Marking





Outlet

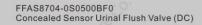
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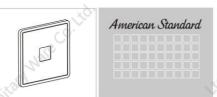
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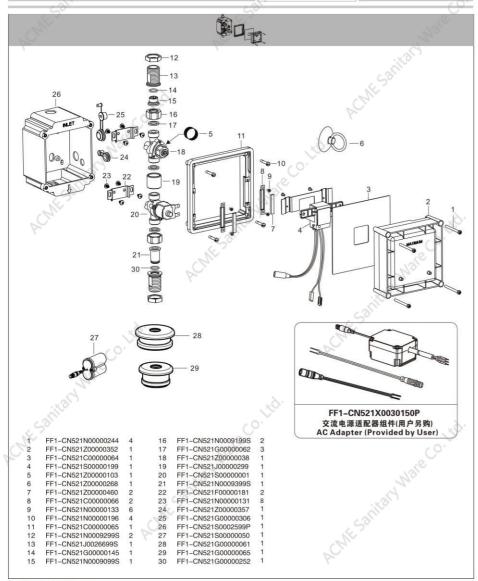
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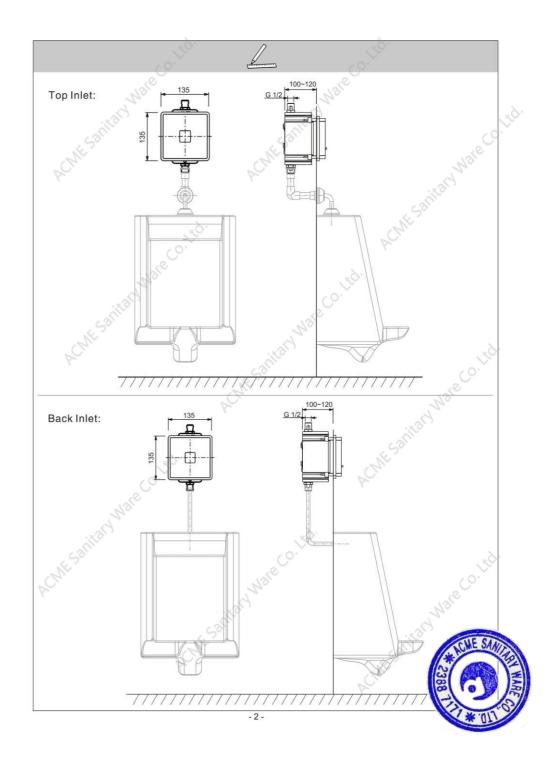
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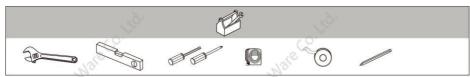


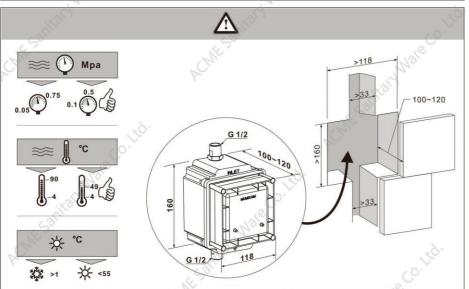


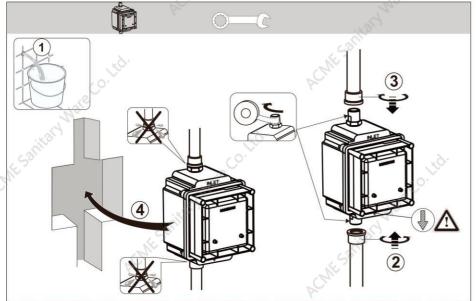


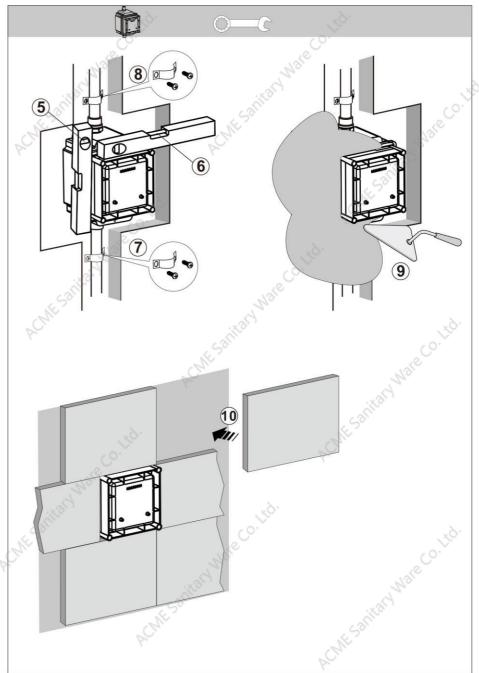
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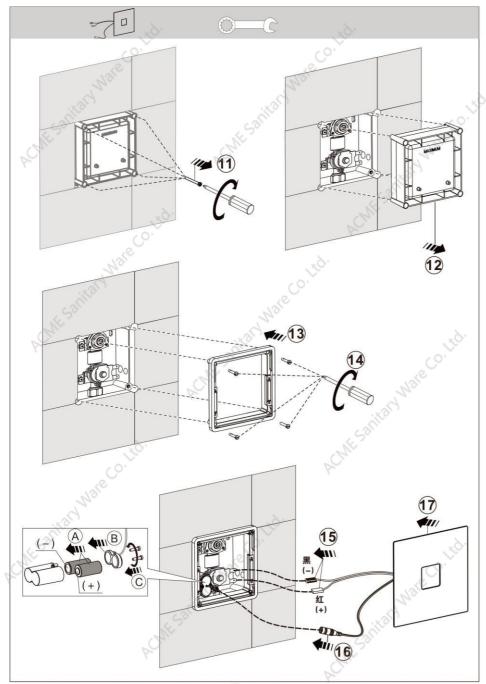








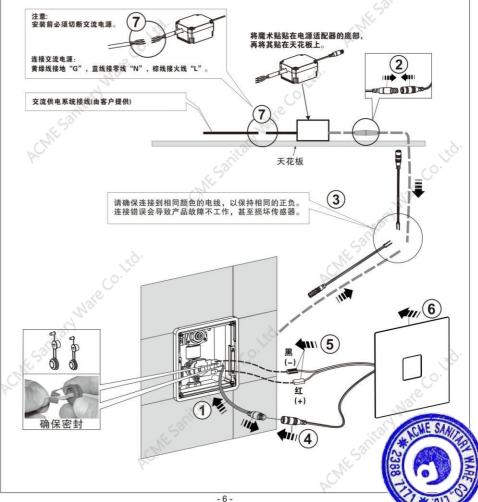
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安装交流电源适配器并连接线缆(FF1-CN521X0030150P)

- * 必须由合格人员安装。
- * 切断交流电源和供水。
- *请勿将传感器直接连接到交流供电系统(无适配器)。即会烧坏传感器,可能会引起电子冲击。
- *产品不含连接线。交流连接线应有绝缘套管。连接交流供电系统的电缆导体标称截面面积不小于1mm²;直流接线标称
- 截面面积不小于0.3mm。现场可根据与产品的距离进行切割(直流接线长度建议小于10m)。
- *请确保电线和连接处远离水、潮气,并注意防止漏电。 *请在更换交流电源前安装漏电保护装置,当发生漏电或短路时,可切断交流电源,保证用户安全。

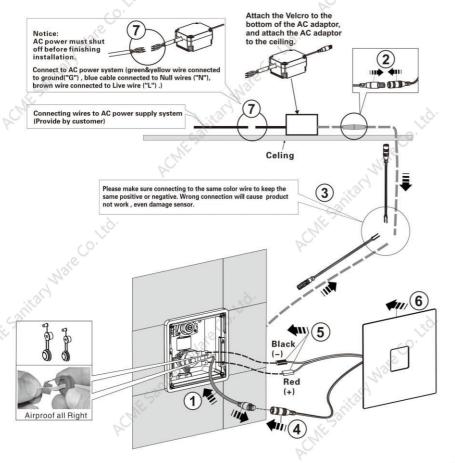




Installing the AC adaptor and connect the Cable (FF1-CN521X0030150P)

Notice Before Installing:

- * Must be installed by qualified people.
- * Cut off AC power supply and water supply.
- * Please don't connect sensor to AC power supply system directly (without adaptor). That will burn up sensor, may be cause electronic shock.
- *Connection wires are not included in product . AC connecting wires should have insulating sleeve . The nominal section area of conductor for wires that connected to AC power supply system is not less than 1mm²2 . For DC connection wires, the nominal section area is not less than 0.3mm . Wires can be cut at site according to the distance to product (The length of wires for DC connection is recommended less than 10m).
- * Please make sure to keep wires and connections away from water, moisture, and also protecting electricity leakage is request.
- * Leakage protector is requested to be installed before AC adaptor .lt can shut off AC power to keep user safety when there is leakage or short circuit.

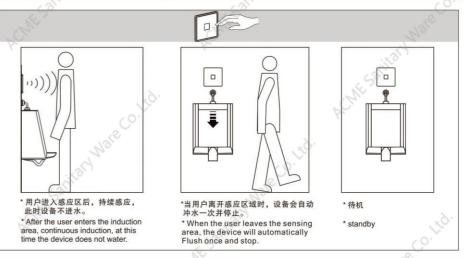


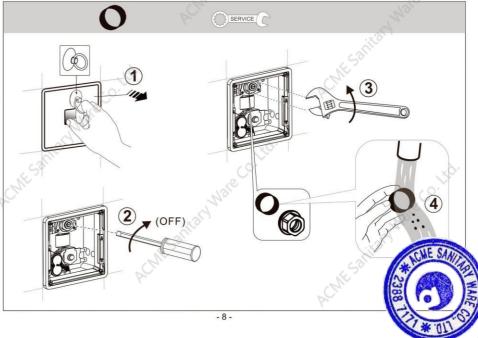


便器的安装 请参阅便器使用说明书

Urinal Installation

Please refer to the instruction manual of Urinal





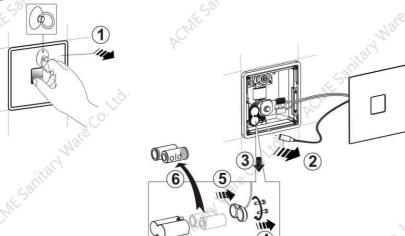


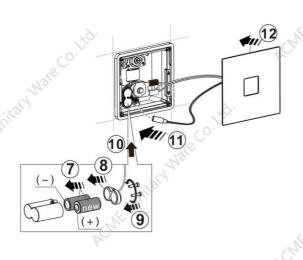


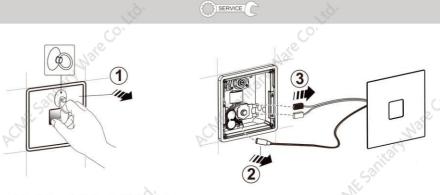
电池更换

*当传感器指示灯持续闪烁时,表示电池电量耗尽,需要更换。

Battery change
*When the sensor indicator light blinks continuously, it means the battery is completely consumed and should be changed.





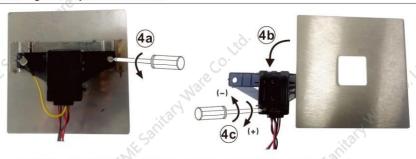


感应头的一段式和两段式调整方法:

One-stage and two-stage adjustment method of sensor:



冲洗时间调整方法: Washing time adjustment method:



2-10秒可调,用小十字螺丝刀,顺时针调大,反之调小。(注意不要太用力,以免损坏零件。) Adjustable for 2 to 10 seconds, use a Phillips screwdriver, clockwise to increase, otherwise to decrease. (Be careful not to exert too much force to avoid damaging the parts.)



注意:

- * 开始前清除管道内所有杂质,以免堵塞管道。
- * 检查尺寸图上的安装距离, 确保安装正确。
- * 不要将小便池安装在相对位置有其他传感器的地方,如厕所自动冲洗设备
- * 不要把小便池安装在有反光物体的地方,例如不锈钢和镜子等。
- * 不允许敲打主要部件。
- * 应避免强烈的阳光直接照射传感器窗口。
- * 保持传感器窗口的清洁。
- * 用中性清洁剂或软布清洁传感器窗口。
- * 不可将有机溶剂直接喷洒到传感器窗口。
- *使用时,请取下感应窗口上的防感应小标贴,如右图:



规格:

FFAS8704-0S0500BF0(直流) / 2粒 3伏 锂电池
PSD 感应头
(柯达灰色卡片) 60±10%cm
0.1~0.55Mpa
G 1/2"
1°C ~55°C
1°C ~ 45°C
3 Seconds
Flush 7 Seconds
≤1.5L (0.1MPa)
24小时无人使用时自动冲洗1.5秒

故障排除

现 象	原因	处理方法
无感应 不冲洗	无电源 无电池/电池装反 感应范围内有其它物体一直被感应 感应窗口较脏 接线端是否插好,是否插错	检查电源 装好电池 清理物体 清洁窗口 插好接线端
有感应 不出水	截止阀是否关闭 感应范围内有其它物体 感应窗口较脏	打开截止阀 移开物体 清洁感应窗口
出水量少	截止阀是否彻底打开 过滤装置堵塞 水压太低	彻底打开截止阀 清洗过滤装置 与供水部门联系
不止水 指示灯连续闪 烁而不出水	电磁阀部位有脏物 电池耗尽	清洗过滤装置(之后连续感应,动作多次 更换电池

如果按以上自检后问题仍未解决,请联系我司代理或我司。



Caution

- * Remove all impurities in pipes before beginning to avoid clogging.
- * Check installation distances in the Dimension diagram to ensure correct installation.
- * Do not install the urinal in a place which having other sensor opposite on the opposite position such as toilet automatic flush equipment.
- * Do not install the urinal in a place with any reflective object opposite, such as stainless steel and mirror etc.
- * Knocking on the main component is not allowed.
- * Strong sunlight should be avoided to irradiate the sensor window directly.
- * Keep the sensor window clean. Knocking on it is not allowed.
- * The sensor window should be cleaned with neutral detergent or soft cloth.
- * Organic solvent shouldn't spray directly to the sensor window.
- * When using, please remove the sensor window to prevent sensor stickers.



Prevent sensor stickers

Specification

Type Power Supply	FFAS8704-0S0500BF0 (DC) / 2Pcs 3V Li Battery
Mode of the inducing	PSD Sensor
Range (Default)	(Kodak gray Card) 60 ± 10%cm
Recommend Working Pressure	0.1~0.55Mpa
Pipe Size	G 1/2"
Environment Temperature	1°C ~ 55°C
Acceptable Water Temperature	1°C~45°C
Detect Time	3 Seconds
Flush Time	Flush 7 Seconds
Flush Volume	≤1.5L (0.1MPa)
Environment protect	Will proceed auto-flush within 1.5 seconds if unoccupied over 24 hours

Trouble Shooting

Problem	Reason	Instruction For Solving
No Detection No Flush	No battery /battery run out / battery is installed incorrectly/no power supply Some object around the sensor is detected all the time Sensor window is dirty The connection is not connected correctly	Check the battery or the power supply Clear the object Clear the window Check the connection
Detect But No Flush	The stop valve is closed Some object around the sensor is detected all the time Sensor window is dirty	Open the valve Clear the object Clear the window
Low Flush Volume	The stop valve is not open entirely The filters are blocked Low water pressure	Open the valve entirely Clean the filters Check with local water supply department
Non-Stop Flushing	Battery run out The cables are cut off The solenoid is block	Check the battery Check the cables and the connection Clean the solenoid and the diaphragm
The sensor is blinking continuously without flush	Low battery	Change battery

If the problems remain unsolved after self-inspection, please contact our agent or our company.