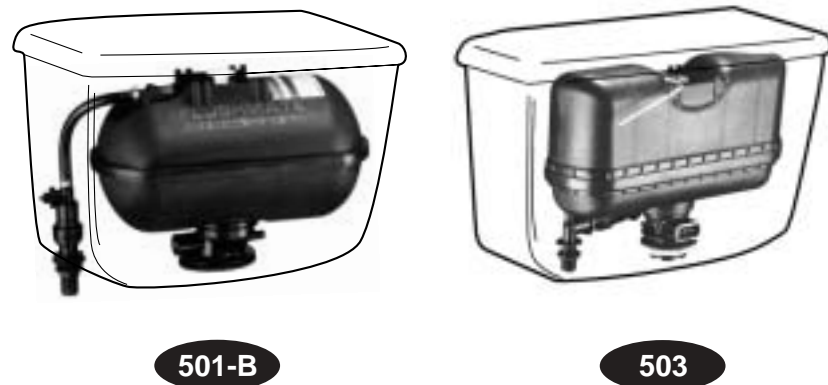
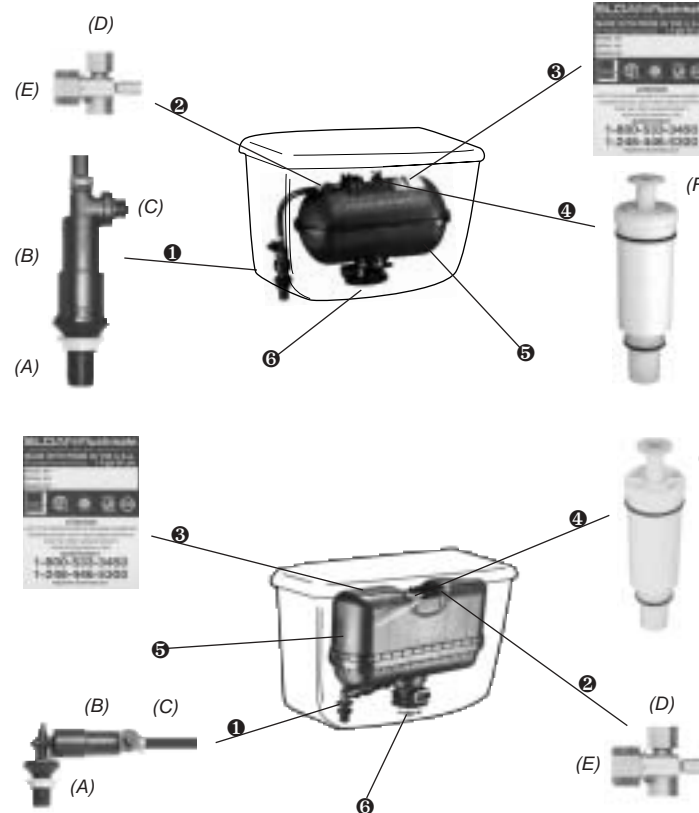


# FLUSHMATE® FLUSHOMETER - TANK SYSTEM



**FLUSHMATE®**  
A Division of Sloan Valve Company  
30075 Research Drive • New Hudson, MI 48165  
800-533-3460 • 248-446-5300  
<http://www.flushmate.com>

## FLUSHMATE® 501-B and 503 SERIES



### List of Components for 501-B Series:

1. Lower Supply Group w/Hose BL100504  
(A) Supply Shank  
(B) Pressure Regulator w/Back Check  
(C) Relief Valve
2. Upper Supply Group BU100505  
(D) Air Inducer  
(E) Vacuum Breaker
3. Name Plate w/Serial Number
4. Flush Valve Cartridge Assembly C-100500  
(F) Actuator w/setscrew
5. Flushmate Tank
6. Discharge Extension w/Drain

### List of Components for 503 Series:

1. Lower Supply Group w/Hose BL100504-3  
(A) Supply Shank  
(B) Pressure Regulator w/Back Check  
(C) Relief Valve
2. Upper Supply Group BU100505  
(D) Air Inducer  
(E) Vacuum Breaker
3. Name Plate w/Serial Number
4. Flush Valve Cartridge Assembly C-100500  
(F) Actuator w/setscrew
5. Flushmate Tank
6. Discharge Extension w/Drain

## FLUSHMATE® A Division of Sloan Valve Company

Manufactured under one or more of the following U.S. patents: 3,817,279; 3,817,286; 3,817,489; 3,820,171; 3,820,754; 4,233,698; 5,802,628; 5,857,224; 6,029,287 and 6,029,288. Also covered by various foreign patents (country and number available upon request) and other patents pending.

The Sloan **FLUSHMATE®** Flushometer - Tank System provides the highest performance capability available today in the ULF (Ultra-Low Fixture) category. That means the system consumes less than 1.6 gallons (6 liters) of water per flush. This remarkable performance is achieved by using compressed air inside the tank, which creates a **turbo-charged** flushing action for effective bowl cleaning. Compared to other types of low consumption water closets, **FLUSHMATE** offers many distinct advantages.

### Outstanding FLUSHMATE® Features:

- Positive Bowl Extraction (No Double Flushing)
- Stronger Flushing Action Improves Drainline Carry & Leaves Bowl Cleaner
- Large Water Spot for Reduced Housekeeping
- Uses less than 1.6 gallons per flush
- Larger Trapway to Eliminate Stoppages
- No Water Leakage Between Flushes
- Non-Sweating Tank Enclosure

### Condition: Vacuum Breaker Leaking

If the Vacuum Breaker (2-E) is leaking, it is likely that the water pressure is insufficient or that there is insufficient flow due to a plugged inlet-screen in the Lower Supply Shank. The recommended static pressure range is between 20 PSI and 125 PSI.

### Note:

If the trouble-shooting steps listed in this manual do not resolve your problem, contact **Flushmate®** Consumer Services at 800-533-3460 or email [info@flushmate.com](mailto:info@flushmate.com). Please be prepared to provide the serial number and date of installation of your **Flushmate®** system.

### Winterizing

1. Turn off the water supply valve and flush the toilet to relieve the pressure.
2. Place a bucket under the Lower Supply Shank (1-A) and disconnect the water supply line, allowing the water to drain into the bucket.
3. Push down on the Actuator and pull it up momentarily to allow air into the vessel.
4. Follow the fixture manufacturer's instructions for winterizing the bowl.
5. Do not put anti-freeze or any other chemical agents in the china holding tank or in the **Flushmate®** Tank.

### Points to Remember

- When replacing components on the **Flushmate®** Flushometer-Tank System, make certain that the water supply valve is turned off and the toilet has been flushed to relieve pressure in the **Flushmate®** tank.
- **USE OF PETROLEUM-BASED LUBRICANTS OR CORROSIVE CLEANING PRODUCTS CONTAINING CHLORINE, SUCH AS HOUSEHOLD BLEACH, DROP-IN BLOCKS OR TABLETS, OR DISINFECTANTS THAT ARE APPLIED INSIDE THE CHINA HOLDING TANK WILL VOID YOUR FLUSHMATE® WARRANTY.**
- **Flushmate®** Flushometer-Tank Systems are designed to be used with cold water.
- The Flush-Valve Cartridge can be removed by inserting the handles of a pair of pliers into the top of the Flush-Valve Cartridge and turning counter-clockwise.
- A small amount of water may be present in the bottom of the china-holding tank. The potential for odor can be eliminated by adding a cup of white vinegar to the china holding-tank. The white vinegar will act as natural disinfectant.
- Your water pressure is adequate if your water supply line will yield one or more gallons of water within thirty (30) seconds.
- Replacement parts are readily available by contacting Consumer Services at 800-533-3460 or by visiting the "Where to Buy" section of our website, [www.flushmate.com](http://www.flushmate.com).

If you would like additional information or require technical assistance, please contact **Flushmate®** Consumer Services at 800-533-3460, or visit our website, [www.flushmate.com](http://www.flushmate.com). For faster service, please be prepared to provide the serial number and date of installation of your **Flushmate®** system.

PLEASE READ THE ENTIRE MANUAL BEFORE ATTEMPTING TO MAKE ANY ADJUSTMENTS OR REPAIRS.

### WARNING:

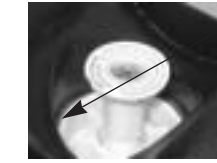
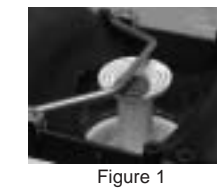
- When replacing components on the **Flushmate®** Flushometer-Tank System, make certain that the water supply valve is turned off and the toilet has been flushed to relieve pressure in the **Flushmate®** tank.
- **USE OF PETROLEUM-BASED LUBRICANTS OR CORROSIVE CLEANING PRODUCTS CONTAINING CHLORINE, SUCH AS HOUSEHOLD BLEACH, DROP-IN BLOCKS OR TABLETS, OR DISINFECTANTS, THAT ARE APPLIED INSIDE THE CHINA HOLDING TANK WILL VOID YOUR FLUSHMATE® WARRANTY.**
- **Flushmate®** Flushometer-Tank Systems are designed to be used with cold water.

### TROUBLESHOOTING

#### Condition: Water runs and will not shut off

A run-on condition may be caused by insufficient water pressure, an improperly adjusted Flush-Valve Cartridge, or a clogged inlet-screen. The recommended static pressure range is between 20 PSI and 125 PSI (See "Points to Remember" for a simple method to determine whether your water pressure is adequate). If sufficient water pressure has been verified and the toilet continues to run-on, the following steps may be required:

1. Make sure the water supply valve is fully open.
2. Check the actuator adjustment. The Flushrod or pushbutton should not interfere with the actuator. The proper clearance should be approximately 1/16" when the pushbutton or flush-handle is stationary. On push-button type fixtures, loosen the set-screw on the actuator (see 4-F on the component list) and rotate the actuator up (counter-clockwise) or down (clockwise) until the proper clearance is obtained. For flush-handle fixtures, observe the clearance. (See Figure 1) If necessary, adjust the actuator to allow for proper clearance. When proper clearance is obtained, tighten the set-screw.
3. Remove, examine, and reinstall the Flush-Valve Cartridge (4).
  - a. Turn off the water supply valve and flush the toilet to relieve the pressure.
  - b. Remove the Flush-Valve Cartridge using the handles of a pair of pliers. (See Figure 2) Turn the Flush-Valve Cartridge counter-clockwise until you can lift it out of the **Flushmate®** tank. On 501-B Series or older flush-handle fixtures, you will need to remove the Flushrod first and disconnect the handle-linkage. Loosen the front-side retainer clip and slide the Flushrod out from under it. Lift the Flushrod and pull it toward you. NOTE: Use caution to prevent the retainer clips or screws from falling into the china holding tank; they may be difficult to retrieve. On 503 Series flush-handle fixtures, disengage the Flushrod from the handle-linkage and flip it away from the Flush-Valve Cartridge. It is not necessary to loosen the retainer clips. (See Figure 3).
  - c. Examine the exposed O-rings on the Flush-Valve Cartridge for obstruction or damage. If the O-rings are damaged, the Flush-Valve Cartridge should be replaced. (See Figure 4).
  - d. Insert the Flush-Valve Cartridge into the **Flushmate®** tank and thread it clockwise into place until one (1) black thread (on the **Flushmate®** tank) is showing above the Flush-Valve Cartridge. (See Figure 5) Fully open the water supply valve and continue to thread the Flush-Valve Cartridge clockwise, 1/4 turn at a time, pausing briefly between each 1/4 turn, until the water stops running into the toilet bowl and the **Flushmate®** tank pressurizes.
  - e. Reinstall Flushrod and handle-linkage.
4. Check Inlet Screen
  - a. Turn off the water supply valve.
  - b. Flush the toilet to relieve the pressure.
  - c. Disconnect the water supply line from the supply-shank (A). (See Figure 6)



### ATTENTION OWNER THESE ARE THE TERMS OF YOUR WARRANTY

Sloan **FLUSHMATE®** offers a ten-year warranty on the replacement components and a lifetime limited warranty on the **FLUSHMATE®** tank.

Sloan **FLUSHMATE®** (the "Company") warrants the **FLUSHMATE®** (flushometer-tank) operating system (the "unit") to be free of defects in material and workmanship for a period of ten (10) years on the replacement components and lifetime limited warranty on the **FLUSHMATE®** tank from the date of installation and the Company promises to replace any part of this product that proves, upon our inspection and within ten years from date of installation, to be defective in material or workmanship. All labor and transportation costs or charges incidental to warranty service are to be borne by the purchaser-user.

This warranty is subject to the following:

#### Specific Conditions to Warranty

1. A Warranty Registration card has been fully completed and mailed by the purchaser (the "user") to the Company within thirty (30) days of the date of installation. Product may also be registered online at [www.flushmate.com](http://www.flushmate.com) or by calling 800-533-3460.
2. The unit has been subject to proper installation, operation and maintenance as outlined in the installation instructions that were supplied with the unit. Note carefully that this warranty is voided if the unit is installed and operated subject to water supply line pressures greater than 125 psi (static) or less than 20 psi (static).
3. Service and repairs may only be performed by authorized representatives of the Company or by others upon specific approval by the Company. Unauthorized repairs or alterations shall specifically void the warranty.
4. **USE OF PETROLEUM-BASED LUBRICANTS OR CORROSIVE CLEANING PRODUCTS CONTAINING CHLORINE, SUCH AS HOUSEHOLD BLEACH, DROP-IN BLOCKS OR TABLETS, OR DISINFECTANTS THAT ARE APPLIED INSIDE THE CHINA HOLDING TANK WILL VOID YOUR FLUSHMATE® WARRANTY.**
5. Proof of purchase is required.

#### Exclusions

IN NO EVENT SHALL THE COMPANY BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, FOR DAMAGES RESULTING FROM IMPROPER INSTALLATION, OR FOR DAMAGES CAUSED BY NEGLIGENCE, ABUSE OR ALTERATION. ALL IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE ARE LIMITED TO A PERIOD OF TEN (10) YEARS FROM DATE OF INSTALLATION.

Some states do not allow limitations on the duration of an implied warranty and some states do not allow exclusions or limitations regarding incidental or consequential damages so the above limitations may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

No person is authorized to change, add to, or create any warranty or obligation other than that set forth herein. To obtain warranty service, contact Consumer Services toll free (USA & CANADA) **800-533-3460** or write to us at:

**FLUSHMATE®**  
A Division of Sloan Valve Company  
ISO 9001 Quality System Certified  
30075 Research Drive  
New Hudson, MI 48165 U.S.A.  
800-533-3460 248-446-5300  
[www.flushmate.com](http://www.flushmate.com)

Installation Date \_\_\_\_\_

Serial Number \_\_\_\_\_

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FLU6122.1 0904

- d. Examine the inlet-screen and remove anything that may be blocking the flow of water into the **Flushmate®** tank. The inlet-screen can be removed by inserting a small pointed object (such as a large paperclip or the blade of a pen-knife) into the lower-supply shank and working the inlet-screen loose. (See Figures 7a, 7b, 7c) The inlet-screen easily snaps back into position by pushing it upward into the supply-shank with your fingertip. (See Figure 7d)
- e. Reattach water supply line and fully open water supply valve.

### Condition: Weak, incomplete, sluggish, or no flush

Inadequate water pressure, an improperly adjusted Flush-Valve Cartridge, a clogged inlet-screen, or insufficient air-draw may cause a weak, sluggish, or no flush condition.

1. Make sure that the water supply valve is fully open.
2. Check for proper installation/adjustment of the Flush-Valve Cartridge. (see Step 3, "Water Runs and Will Not Shut Off")
3. Turn off the water supply valve.
4. Flush the toilet to relieve the pressure.
5. Disconnect the water supply line from the supply-shank (A). (See Figure 6)
  - a. Examine the inlet-screen and remove anything that may be blocking the flow of water into the **Flushmate®** tank. The inlet-screen can be removed by inserting a pointed object (such as a large paperclip or the blade of a pen-knife) into the lower-supply shank and working the inlet-screen loose. (See Figures 7a, 7b, 7c) The inlet-screen easily snaps back into position by pushing it upward into the supply-shank with your fingertip. (See Figure 7d)
  - b. Examine the Air Inducer (2-D) for obstruction or damage. (See Figure 8)
    - a. Make sure the water supply valve is turned off and the toilet has been flushed to relieve the pressure.
    - b. Remove the Air inducer Cap (2-D) (See Figure 9)
    - c. Remove the Duck-bill Valve from the Air Inducer Cap. (See Figure 10) The flat "lips" of Duck-bill Valve should open fully when the square sides are squeezed together. (See Figure 11) Rinse any obstruction or mineral deposits from the Duck-bill Valve. If the Duck-bill Valve is damaged, it must be replaced.
    - d. Insert the Duck-bill Valve into the Air Inducer Housing. (See Figure 12)
    - e. Put the Air Inducer Cap back on, and tighten finger-tight only. (See Figure 13)
    - f. Reconnect the water supply line and fully open water supply valve.
7. Check Air Inducer for sufficient air-draw. Place a small amount of water (two to three drops) over the hole on top of the Air Inducer Cap (See Figure 14) and flush the toilet. If the Air Inducer is working properly, the water will be drawn in. (See Figure 15)
8. Check the Flush-Valve Cartridge for leaks. Pour a small amount of water into the Cartridge Housing area. (See Figure 16) If bubbles are coming from the center or the edge of the Flush-Valve Cartridge, it should be replaced.



Figure 9

Figure 6

Figure 7a

Figure 7b

Figure 7c

Figure 7d

Figure 8

Figure 10

Figure 11

Figure 12

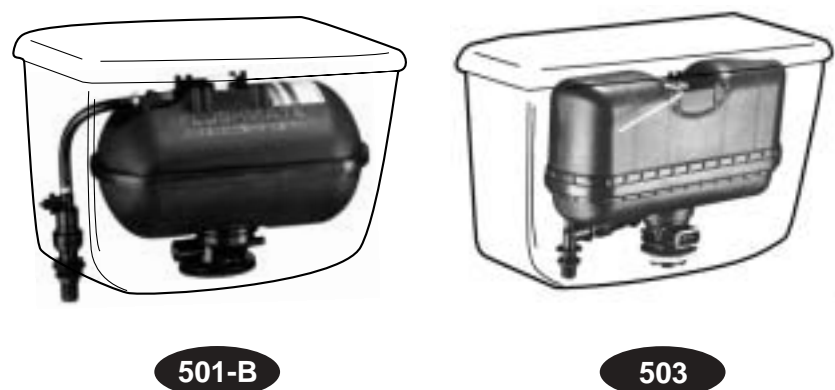
Figure 13

Figure 14

Figure 15

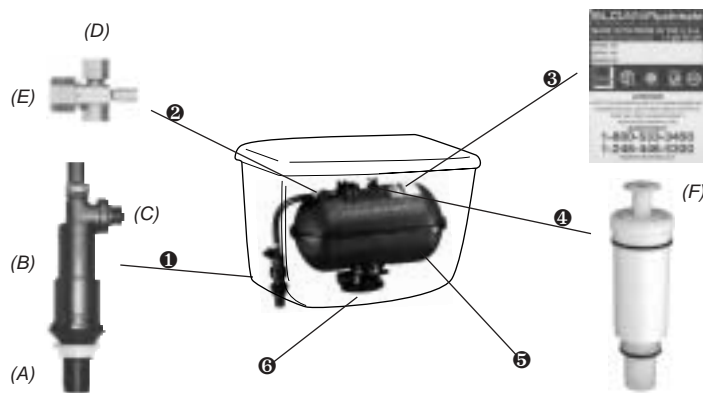
Figure 16

# FLUSHMATE® 冲洗伙伴® 节水型水箱系统



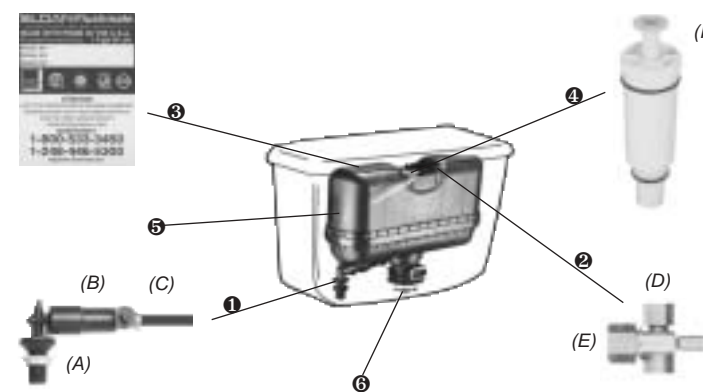
**FLUSHMATE®**  
仕龙阀门公司属下公司  
美国密西根州新哈德逊市·里舍奇路30075号·邮编 48165  
美国免费电话: 800-533-3460 • 电话: 248-446-5300  
网址: <http://www.flushmate.com>

## FLUSHMATE® (冲洗伙伴®) 501-B 和 503 系列



### 501-B 系列部件表:

- 下部进水组件与软管 BL100504  
(A) 进水直管和滤网  
(B) 稳压器与止逆阀  
(C) 减压阀
- 上部进水组件 BU100505  
(D) 进气阀  
(E) 真空破坏阀
- 铭牌与序号
- 冲洗阀组件 C-100500  
(F) 执行器与固定螺丝
- 箱体
- 放水管与排水阀



### 503 系列部件表:

- 下部进水组件 BL100504-3  
(A) 进水直管和滤网  
(B) 稳压器与止逆阀  
(C) 减压阀
- 上部进水组件与软管 BU100505  
(D) 进气阀  
(E) 真空破坏阀
- 铭牌与序号
- 冲洗阀组件 C-100500  
(F) 执行器与固定螺丝
- 箱体
- 放水管与排水阀

## 冲洗伙伴®

仕龙阀门公司属下公司

按照美国专利号 3,817,279、3,817,286、3,817,489、3,820,171、3,820,754、4,233,698、5,802,628、5,857,224、6,029,287 和 6,029,288 中的一项或多项标准生产。另外,也受许多外国专利号和其他尚在申请之中的专利的保护(具体国家与注册号可来函索取)。

仕龙公司的 FLUSHMATE® (冲洗伙伴®) 冲洗阀水箱系统提供当今市场上 ULF (节水冲洗装置) 类产品中最高性能与能力。也就是说,该系统每次的冲洗水量不到 1.6 加仑/6 升。它利用水箱内部的压缩空气来取得这样杰出的性能,并产生强大的冲洗作用,非常有效地清洁便盆。与其他低水耗洁具相比, FLUSHMATE® (冲洗伙伴®) 有许多显著的优点。

### FLUSHMATE® (冲洗伙伴®) 的突出特性:

- 彻底的便盆排空 (无二次冲洗)
- 强大的冲洗作用增进排水系统的携带力并使便盆更清洁
- 大浸水面积减少清洁的工作量
- 每次冲水用水量仅 6 升
- 更大的存水弯有利于消除堵塞
- 两次冲水之间无漏水现象
- 水箱外表无“出汗”现象



图 10

### 故障状况: 真空破坏阀漏气

如果真空破坏阀 (2-E) 漏水,有可能是水压不足,或是由于下部供水直管内的进水滤网堵塞而造成的流量不足。我们推荐的静压标准范围是 1.41 kgf/cm<sup>2</sup> 到 8.79 kgf/cm<sup>2</sup> 之间。

### 注意:

如果本手册中所列的故障排除步骤无法解决你的故障问题,请联络 *Flushmate®* 客户服务部,电话 1-248-446-5300 或把电子邮件发至 [info@flushmate.com](mailto:info@flushmate.com)。请预先准备提供产品的序列号以及你的 *Flushmate®* 系统的安装日期。

### 越冬处理

- 关闭供水阀门,并冲洗洁具以释放压力。
- 把水桶放在下部供水直管 (1-A) 的下面,然后断开供水管道连接,把水排入水桶中。
- 按下执行器,然后拉起片刻,使空气进入水箱壳体。
- 按照洁具制造商的说明,对座便器进行越冬处理。
- 不得在陶瓷水箱或 *Flushmate®* 水箱内加入防冻液或任何其他的化学制剂。

### 注意要点:

- 当更换 *Flushmate®* 冲洗阀-水箱系统的部件时,请确认供水阀门关闭,并冲洗洁具以释放 *Flushmate®* 水箱内的压力。
- 使用石油基润滑剂或含有氯的腐蚀性清洁产品,比如家用漂白粉、内投药块或药片,或者用于陶瓷水箱内的消毒剂等,都将使 *FLUSHMATE®* 的产品保证失效。
- Flushmate®* 冲洗阀-水箱系统设计为使用冷水。
- 拆卸冲洗阀阀芯时,可以把钳子的把手插入冲洗阀阀芯的顶部,然后逆时针旋转即可拆除。
- 在陶瓷水箱的底部可能会积存少量的水。向陶瓷水箱内加入一杯白醋即可消除产生异味的可能性。白醋将产生天然消毒剂的作用。
- 如果你的供水管道能够在 30 秒内流出 4 升以上的水,则你的水压就算足够。
- 可以通过联络客户服务部而方便地得到更换部件,电话 1-248-446-5300 或者访问我们的网站 [www.flushmate.com](http://www.flushmate.com) 上的“Where to Buy (购买地点)”专区来取得。

如果你想了解详细信息或者寻求技术协助,请联络 *Flushmate®* 客户服务部,电话 1-248-446-5300 或者访问我们的网址 [www.flushmate.com](http://www.flushmate.com)。为得到更快的服务,请预先准备提供产品的序列号以及你的 *Flushmate®* 系统的安装日期。



图 16

在尝试任何调节或维修操作之前,请先阅读手册的全部内容。

### 警告:

- 当更换 *Flushmate®* 冲洗阀-水箱系统的部件时,请确认供水阀门已被关闭,并且已冲洗洁具以释放 *Flushmate®* 水箱内的压力。
- 使用石油基润滑剂或含有氯的腐蚀性清洁产品,比如家用漂白粉、内投药块或药片,或者用于陶瓷水箱内的消毒剂等,都将使 *Flushmate®* 的产品保证失效。
- Flushmate®* 冲洗阀-水箱系统设计为使用冷水。



图 1

### 故障排除

#### 故障状况: 水流持续而不间断

水流不止的现象可能是由水压不足、冲洗阀阀芯调节不当或进水管滤网堵塞而引起。我们推荐的静压标准范围是 1.41 kgf/cm<sup>2</sup> 到 8.79 kgf/cm<sup>2</sup> 之间 (请参见“注意要点”一节中确定水压是否足够的简单方法)。如果足够的水压已经得到确认,然而洁具却依然水流不断,则需要采取如下步骤:

- 确认供水阀门完全打开。
- 检查冲洗阀执行器的调节。冲洗杆或冲洗按钮不得妨碍执行器的动作。当冲洗按钮或冲洗把手稳定时,应当保持 1.5 - 2 mm 的适当空间。对于按钮式洁具,可拧松执行器上的固定螺丝 (见部件列表中的第 4-F 项) 并转动执行器,使其上 (逆时针) 下 (顺时针) 移动,直到获得适当的空间为止。对于冲洗把手式洁具,应观察其空间情况。(请参见图 1) 必要时可调节执行器,以便得到适当的空间。当空间合适之后,拧紧固定螺丝。
- 拆卸、检查和重新安装冲洗阀阀芯 (4)。
  - 关闭供水阀门,并冲洗洁具以释放压力。
  - 用钳子手柄来拆卸冲洗阀阀芯。(请参见图 2)。逆时针转动冲洗阀阀芯,直到能够把它取出 *Flushmate®* 水箱。对于 501-B 系列或更早的冲洗把手式洁具,你需要首先拆卸冲水连杆并断开与把手链的连接。拧松前端固定夹,并把冲水连杆从它下面抽出。提起冲水连杆并拉向操作者。注意:操作时请当心,防止固定夹或螺丝掉进陶瓷水箱内,因为寻找起来可能很困难。对于 503 系列冲水把手式洁具,可以从把手链上拆下冲水连杆,然后把它折向冲洗阀阀芯的另一侧。这种情况下无需拧紧固定夹。(请参见图 3)。
  - 检查冲洗阀阀芯上露出的 O 形环是否有堵塞或损坏。如果 O 形环损坏,则应更换冲洗阀阀芯。(请参见图 4)。
  - 把冲洗阀阀芯插入 *Flushmate®* 水箱并顺时针拧入到位,直到黑色螺纹 (在 *Flushmate®* 水箱上) 露出冲洗阀阀芯以上。(请参见图 5)。完全打开供水阀门,并继续顺时针转动冲洗阀阀芯,每次拧四分之一圈,每拧一次后都短暂停顿片刻,直到水停止流入洁具的座便器中,并且 *Flushmate®* 水箱加压为止。
  - 重新安装冲水连杆和把手链。
- 检查进水滤网
  - 关闭供水阀门。
  - 冲洗洁具以释放压力。
  - 从供水直管 (A) 处断开与供水管道连接。(请参见图 6)



图 2



图 3



图 4

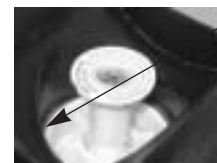


图 5

### 用户请注意

#### 以下为产品保证条款

仕龙 *FLUSHMATE®* 公司为替换部件提供 10 年产品保证,并对 *FLUSHMATE®* 水箱提供终身有限产品保证。

仕龙 *FLUSHMATE®* (简称“公司”) 保证 *FLUSHMATE®* (冲洗阀水箱) 操作系统 (简称“设备”) 从安装之日起在替换部件方面 10 年之内不出现材料和工艺上的缺陷,并对 *FLUSHMATE®* 水箱提供终身有限产品保证。公司承诺对任何经验证判定为从安装之日起 10 年之内出现材料和工艺缺陷的产品部件进行更换。产品保证服务的所有人工费和运输费或杂费均由购买者或用户承担。

此保证受如下条件约束:

### 产品保证的具体条件

- 购买者 (用户) 必须在安装之日起 30 天内完整填写产品保证登记卡,并且将其寄出。产品也可以在网站 <http://www.flushmate.com> 在线注册或者打电话 248-446-5300。
- 本装置应当按照附带安装说明的内容进行适当的安装、操作和维护。请注意,如果设备安装和操作的供水管道压力大于 8.79 kgf/cm<sup>2</sup> (静压) 或小于 1.41 kgf/cm<sup>2</sup> (静压),则本保证无效。
- 本装置的维护与维修只能由公司授权的代表执行或者经公司特别认可的其他人员执行。未经授权的维修或改装将使本保证失效。
- 使用石油基润滑剂或含有氯的腐蚀性清洁产品,比如家用漂白粉、内投药块或药片,或者用于陶瓷水箱内的消毒剂等,都将使 *FLUSHMATE®* 的产品保证失效。
- 请求产品保证服务时需要提供购买凭证。

### 责任免除

本公司不会为意外损害及随之而来的损害承担责任,不会为由于安装不当或疏忽、滥用或改装而造成的损害承担责任。所有暗含的保证,包括任何暗含的适销性保证以及针对任何特殊目的适用性都限于自安装之日起的 10 年。

某些州不允许对暗含保证中的期限进行限制,而有些州不允许排除或限制意外损害及随之而来的伤害的责任,所以上述限制对你可能并不适用。该保证赋予客户特别的合法权利,客户拥有其他权利,这些权利在各个州之间可能存在差异。

我们不授权任何人修改、添加或制定除此规定之外的任何保证和义务。

若想得到产品保证服务,请联络客户服务部,美加电话为 248-446-5300 或按以下地址写信给我们:

**FLUSHMATE®**  
仕龙阀门公司分公司  
ISO 9001 质量体系认证  
30075 Research Drive  
New Hudson, MI 48165 U.S.A.  
800-533-3460 248-446-5300  
[www.flushmate.com](http://www.flushmate.com)

安装日期 \_\_\_\_\_

序列号 \_\_\_\_\_



图 6



图 7a



图 7b



图 7c



图 7d



图 8



图 9