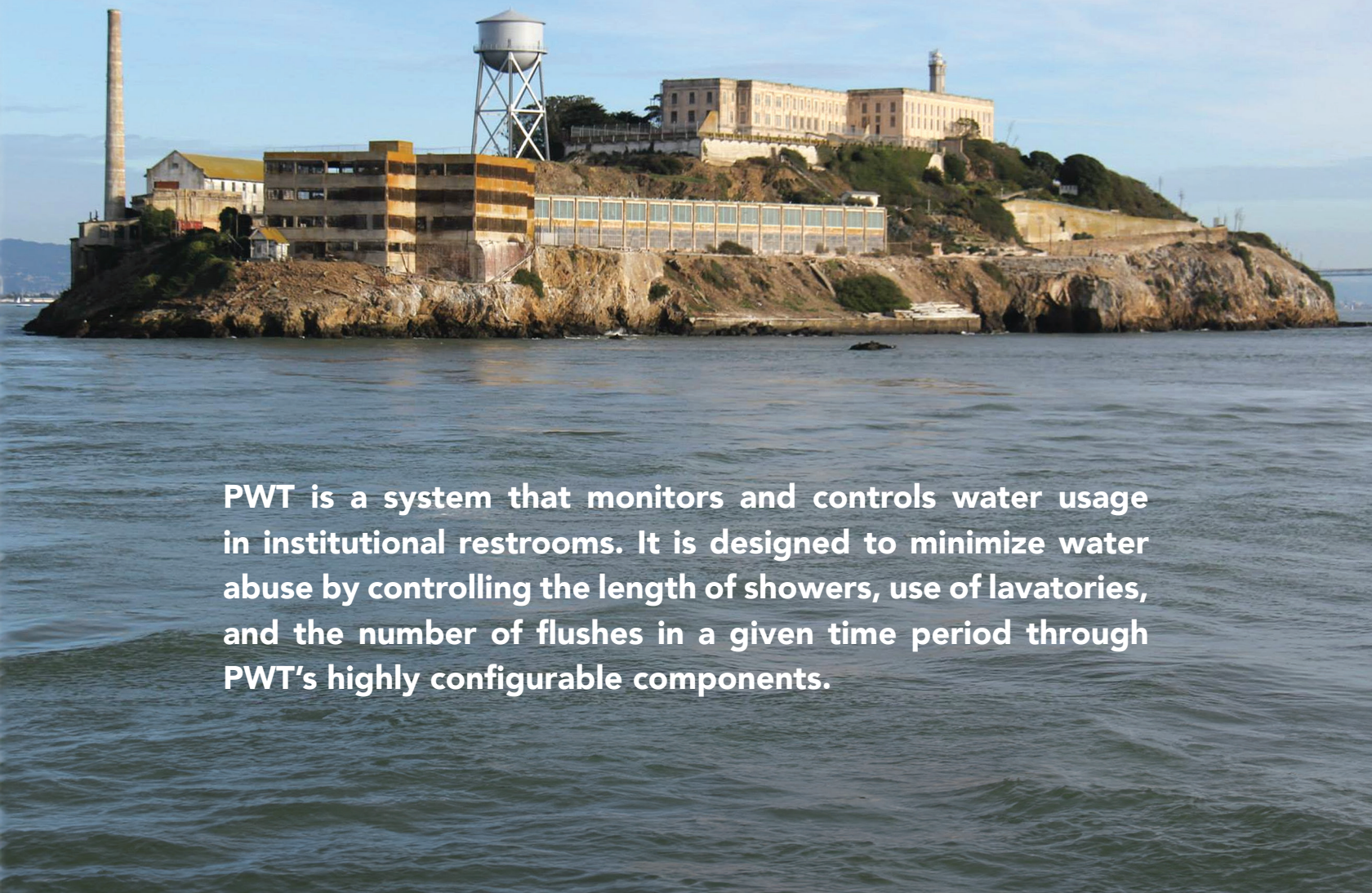




**SLOAN®**

# **PROGRAMMED WATER TECHNOLOGIES (PWT)**

*Maintenance and Product Guide  
For Correctional Institutions and Other Facilities*



PWT is a system that monitors and controls water usage in institutional restrooms. It is designed to minimize water abuse by controlling the length of showers, use of lavatories, and the number of flushes in a given time period through PWT's highly configurable components.

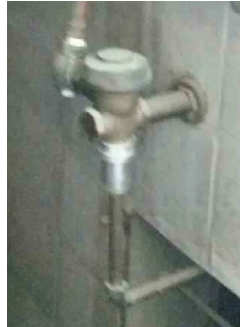
# SLOAN'S PWT WATER SAVING PRODUCTS

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*Studies show that the average inmate flushes the toilet 42 times a day.  
A 500 inmate prison flushes down 26,827,500 gallons of water a year.  
That's \$187,792.00 a year.*

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## Got a prison with old plumbing?



Sloan's PWT can reduce toilet flushing by 75%. 42 flushes a day becomes 10 a day. That's a savings of 20 million gallons of water, and \$143,080.00 a year. And that's just the toilets. The lavatories and showers in a PWT system can save you even more.

## Time to Upgrade

The cheapest and easiest fixture to upgrade, and the biggest water waster of them all, is **the toilet**. Sloan's programmable flush valve system can retrofit into your existing plumbing. Take charge of your water usage and reduce your water bill by 75%. Turn \$187,792.00 into \$44,712.00. Less than 30 minutes per toilet is all it takes to start saving money.

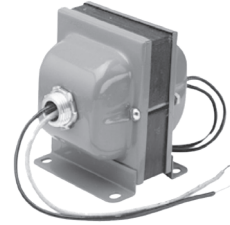


## More Money Saving Fixtures

The next 9 pages show all of the retrofit products for toilets, as well as existing showers, lavatories, and water fountains. Choose your options, and create a new programmable water saving system for your facility. **Efficiency = Savings**

# PWT – MADE SIMPLE

1. You need power:  
Get a transformer and wire it up.



2. Install a Module and connect it to the transformer.  
Note: they have an 8 port.

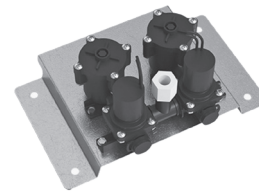


3. Choose a button assembly and plug it into the module. The LED offers the best advantages.



*(Once you have power to the module and the buttons installed, just pick out all the items you want to control, and plug them into the module. )*

4. Manifolds for Showers & Lavatories. These mix hot & cold water, and you control the water flow. You can mix up to 4 separate lines.  
Note: 1, 2, 3 or 4 line manifolds available.



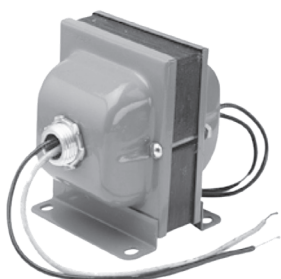
5. Have tempered water? In place of a manifold, use a solenoid for showers, lavatories and water fountains.



6. Flush valves – Sloan or Zurn.  
Just plug it into the module & you control the flushes.



# TRANSFORMERS



**Equiparts #54169**  
**PWT System 100 VA Transformer**  
**Foot-Mount Transformer**



**Equiparts #49396**  
**PWT System 24 VAC/50**  
**VA Plug-In Transformer**  
**Class 2 Step-Down Transformer**



**Equiparts #49391**  
**PWT System 24 VAC/100**  
**VA Plug-In Transformer**  
**Class 2 Step-Down Transformer**

# CONTROL MODULES



**Equiparts #49749**  
**PWT Products 4-I/O Control Module**



**Equiparts #49390**  
**PWT Products 8-I/O Control Module**

# ACTIVATION BUTTONS



**Equiparts #49385**  
**PWT LED Button Assembly**

Waterproof push button. Mounts on fixture back splashes. Activates water closets, lavatories, fountains, and showers.



**Equiparts #88828**  
**PWT System Push Button Assembly**

Waterproof push button. Mounts on fixture back splashes. Activates water closets, lavatories, fountains and showers. Red LED light activates during lock out period.



**Equiparts #65672**  
**PWT System Push Button Assembly**

PWT System Push Button Assembly. Waterproof push button for use with any PWT controller. Activates water closets, lavatories & showers.

# SOLENOIDS



**Equiparts #87075**  
**PWT System Solenoid Operator Retrofit Kit**

24 VAC retrofit solenoid kit used to convert hydraulic flushometers into electronic flushometers for use with PWT system controllers.



**Equiparts #61456**  
**PWT System Solenoid Kit**

24 VAC retrofit solenoid with integral filter used to supply hot or cold water to lavatories or pre-mixed water to a shower.

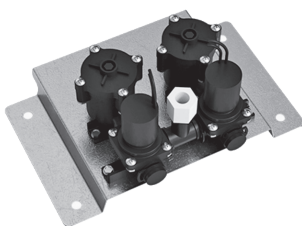


**Equiparts #SP5838**  
**PWT System Lavatory/Shower Solenoid**

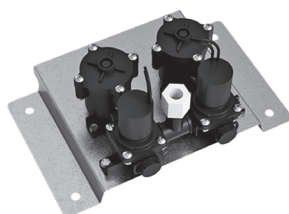
Electronically operated solenoid with integral filter used to supply hot or cold water to lavatories or pre-mixed water to a shower.

# MANIFOLDS

## Lavatory, Showers, or Water Fountains



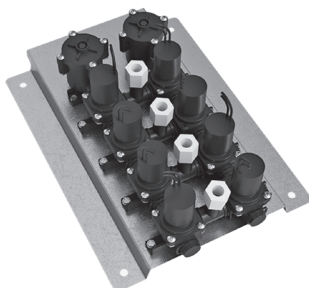
**Equiparts #48271**  
**PWT Manifold ASM 1-Line, 0.5 GPM**



**Equiparts #49393**  
**PWT Manifold ASM 1-Line, 2.5 GPM**



**Equiparts #49539**  
**PWT Manifold ASM 2-Line, 0.5 GPM**



**Equiparts #47836**  
**PWT Manifold ASM 4-Line, 0.5 GPM**



**Equiparts #88942**  
**PWT System Lavatory/Shower**  
**24 VAC Solenoid Retrofit Kit**

# CONCEALED FLUSH VALVES

## RETROFITS



### Equiparts #49452

#### Concealed Sensor Closet/Urinal PWT Retrofit

1.6-3.5 GPF

LED Button Battery with Sloan Ring

### Equiparts #49386

#### Concealed Sensor Closet/Urinal PWT Retrofit

1.6-3.5 GPF

LED Button Battery with Zurn Ring



### Equiparts #49387

#### Concealed Sensor Closet/Urinal PWT Retrofit

1.6-3.5 GPF

LED Button Battery & Hardwired with Sloan Ring

### Equiparts #49387Z

#### Concealed Sensor Closet/Urinal PWT Retrofit

1.6-3.5 GPF

LED Button Battery & Hardwired with Zurn Ring

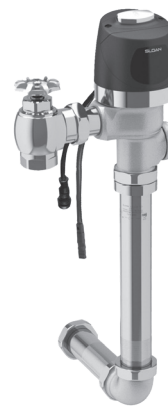
## COMPLETE



### Equiparts #49388

#### 1.6 GPF, RB, Single Flush Concealed Solenoid Water Closet

PWT LED Button  
Battery



### Equiparts #49389

#### 1.6 GPF, RB, Single Flush Concealed Solenoid Water Closet

PWT LED Button  
Hardwired and Battery

# SECURITY FLUSH VALVE RETROFITS

## PWT Retrofits For Exposed Manual Closets or Urinals

Do you have an exposed flush valve on a non-secure closet, or a urinal you can't control that incurs repeated flushing and vandalism? Take any existing wall hung or floor mount toilet or urinal, and add the PWT water saving retro kit and a Metcraft Security Flush Valve Box, and you'll have a secure, water saving fixture that saves you a ton of money.



Wall Mount Exposed



Floor Mount Exposed



Floor Mount  
Back Outlet Exposed



Urinals

**Here's an easy way to retrofit your fixtures to a secure controlled flushing toilet or urinal system:**

### Closets



Existing closet and  
flush valve

+



Sloan PWT Retro Kit  
(pg 9)

+



Metcraft Security  
Flush Valve Box  
EQ #SP16961

=



### Urinals



Existing urinal and  
flush valve

+



Sloan PWT Retro Kit  
(pg 9)

+



Metcraft Security  
Flush Valve Box  
EQ #SP16961

=



**Now you have a secure water saving fixture that's free from vandalism, and will allow you to take control of the amount of water being wasted.**

# SECURITY FLUSH VALVE RETROFITS

## PWT Retrofits For Concealed Behind the Wall Manual and Hydraulic Closets or Urinals



**#49452**  
1.6-3.5 GPF  
LED Button  
Battery Powered  
With **Sloan Ring**



**#49387**  
1.6-3.5 GPF  
LED Button  
Battery Powered & Hardwired  
With **Sloan Ring**

**#49386**  
1.6-3.5 GPF  
LED Button  
Battery Powered  
With **Zurn Ring**

**#49387Z**  
1.6-3.5 GPF  
LED Button  
Battery Powered & Hardwired  
With **Zurn Ring**

### Identify Your Valve

There are two types of concealed flush valves: manual and hydraulic. One will have tubes connected to it, the other will not. Hydraulic valves require additional parts in order for your retrofit to work. For Sloan, you will need a plastic adapter. For Zurn, you will need a plug. If your valve is non-hydraulic, no additional parts are needed.



**Sloan Hydraulic**  
**Needs this #54708 adapter**



**Zurn Hydraulic**  
**Needs this #19804 plug**



**Non-hydraulic**  
**No parts needed**

### The Sloan® PWT 8603-ESM Valve Series

Lockout times can be adjusted with just the push of a button in the field or during installation. At the beginning of the cycle, the user may flush twice within five minutes. After that, there are four lockout options.

**Note:** When the flush valve is on lockout, there is a red LED ring that lights up on the button. This is to notify you that the flush valve is on lockout.

### Lockout Options

**Program AO1:** 15-minute lockout

**Program AO2:** 30-minute lockout

**Program AO3:** 45-minute lockout

**Program AO4:** 60-minute lockout

**Program AO5:** Dorm setting. One flush, then a 60 second lockout

# PARTS AND ACCESSORIES

## Power Cord Kit



**Equiparts #54689**

## Solenoid Cable Extension Kits

**Equiparts #62459**  
36"

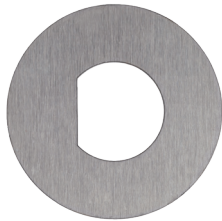
**Equiparts #62460**  
108"

**Equiparts #18999**  
240"

**Equiparts #19000**  
600"



## D Hole Mounting Plate Adapter



**Equiparts #92183**

## Handle Adapter

**Equiparts #54708**

Allows an Optima or Side Mount flushometer to be converted into a handle operated unit.



## Hands Free Diaphragm Kits

*Includes 4 AA Batteries*

**#85629**

For 0.125 and 0.25 GPF Urinals

**#08695**

For 0.5 GPF Urinals

**#08137**

For 1.0 and 1.5 GPF Urinals

**#83565**

For 1.28 Closets

**#08285**

For 1.6 and 3.5 GPF Closets

**#08710**

2.4 GPF



## Vacuum Breaker Repair Kits



**#08438**

New Style Royal

# PENITENTIARY SUCCESS STORY

## 90% Reduction in Plumbing Service Calls

### The Challenge

Northeast State Penitentiary, housing more than 3,250 inmates, began replacing its original 1994 anti-flood flush systems with 575 Sloan PWT-LED Retro Valves, Equiparts part #61613. To date, over 250 valves have been installed, replacing aging systems that had become unreliable and maintenance-intensive.

### The Results

The initial goals were to reduce water consumption, lower maintenance costs, and prevent inmates from passing contraband through the waste piping. While all three objectives were achieved, the maintenance department reported an unexpected benefit—**Up to a 90% reduction in plumbing service calls.**

The primary reason was the elimination of inmate "Muffin Monsters"—drug bundles wrapped and flushed through the plumbing system between housing units. By limiting the number of flushes and incorporating a programmable lockout, the Sloan PWT system prevented contraband from moving through the waste lines, significantly reducing clogged drains and emergency maintenance calls.

#### Two-Month Service Requests Recap:

- Before Sloan PWT Installation: 60 service requests
- After Sloan PWT Installation: 6 service requests

### Benefits Realized

1. Significant water savings
2. **Up to 90% reduction** in plumbing service calls
3. Virtually eliminated inmate-to-inmate contraband transfers through the plumbing system
4. Zero maintenance compared to the original 1994 anti-flood flushing system
5. Simple retrofit utilizing existing plumbing

### Correctional Staff Validation

Following installation, an inmate filed a complaint regarding the limited flush cycle. The Department of Corrections dispatched an Institutional Inspector and a Correctional Officer to evaluate the system.

Maintenance staff demonstrated the two-flush sequence, red LED indicator, and 30-minute programmable lockout. After reviewing the operation, both officials confirmed they were satisfied with the system and its functionality.

***"The Sloan PWT Retro Valve delivered more than water savings. It reduced maintenance, helped stop contraband movement through the plumbing system, and cut plumbing service calls by up to 90%."***

## Water Conservation Technologies

# That Hard to Find Part is Right Here!

# SINCE 1968



***For over 50 years, Equiparts has been supplying a complete line of plumbing and maintenance specialties to commercial and institutional customers. Our specialty is hard to find parts. In addition, we are committed to delivering the highest level of professional service. The Equiparts team is comprised of educated product specialists with unparalleled knowledge and technical expertise.***

## TWO LOCATIONS!

## PITTSBURGH, PA

**120 Pennsylvania Ave.  
Oakmont, PA 15139**

**Pittsburgh: 412.781.9100**  
**Toll Free: 800.442.6622**  
**Fax: 412.781.3085**

## MANASSAS, VA

**8517 Phoenix Dr.  
Manassas, VA 20110**

**Manassas: 703.257.7774**  
**Fax: 703.257.7696**

**www.equiparts.com**

