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## **WATERLESS URINALS**

Unique cartridge and valve system odor free

# WATERLESS URINALS by

No Flush waterless urinals, manufactured in Europe and now available across Europe, offer a quality, waterless, stylish and efficient alternative to conventional flushed urinal installations.



## DIVERSITY IN ITS HIGHEST APPEARANCE FORM.

Available as single units in a variety of styles to suit different applications or as troughs of varying lengths.

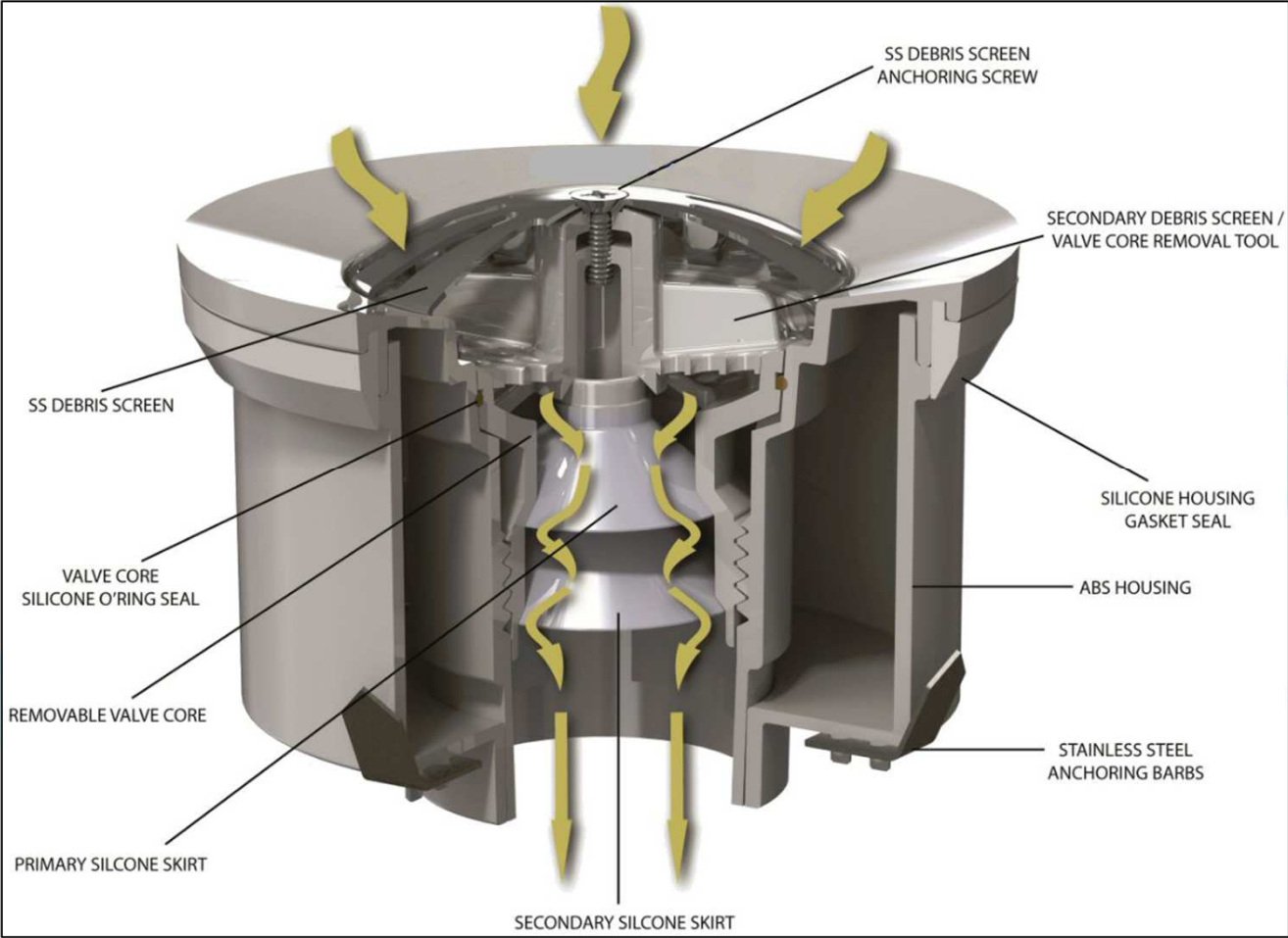


## AESTHETICS MAKE THE CRUCIAL DIFFERENCE.



Manufactured in conventional white ceramic or for the high quality GRP. they are available in a range of colour options.

# CARTRIDGE SYSTEM



## SYSTEM STANDARD FOR URINAL

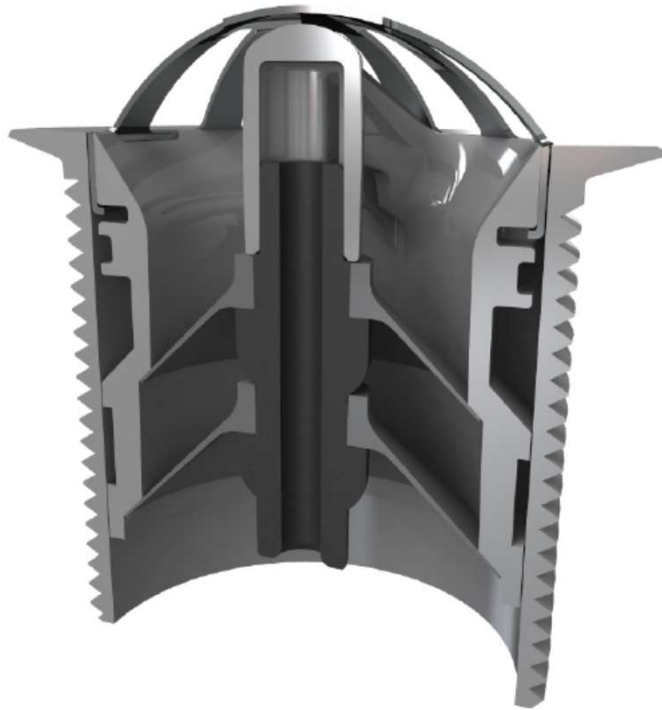


## DUAL VALVE TECHNOLOGY ADVANTAGES OVER DUCK BILL AND OTHERS

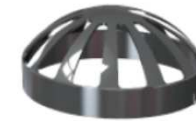
1. Valve is susceptible to damage from acid and bleach based cleaning chemicals. The Duck Bill recommends a neutral cleaning product is used. The ZW6 valve is more robust.
2. Hair and debris large enough to pass through the screen can cause the single valve to remain open, allowing drain odours into the washroom. The dual skirt valve is much better at allowing debris through and it is very unlikely both valves will be left in the open position. Only 1 valve is needed to stop odours. When debris lodges in one section of the valve, fluid naturally gravitates to that section as the path of least resistance, therefore encouraging the debris to be washed through the valve assembly.
3. Unique dual valve technology
4. Lasts over 6 months

# The 'ZW15'

- A smaller version of the ZW6V, designed for UK urinals with 1.5" BSP waste outlets.



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**The BEST waterless retrofit system!**

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# Competitive Waterless Retrofit Products

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- **Water Solutions:** now fairly niche, often found in motorway services. Needs regular maintenance.
- **Enswico Key-Valve:** Best current product, but expensive and has yet to achieve a significant base. Uncertain longevity of cartridges. Looks unpleasant after weeks of use. Needs compatible cleaning regime.
- **PHS Aquafree:** Base of around 15,000. Inexpensive and easy to fit because it works with traps in situ, but requires good cleaning and maintenance practices.



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# Possible SKUs for the ZW15 with Example Pricing



## Retail Packs

### Single Starter

- 1 x cartridge
- 1 x waste outlet set
- 1 x extraction tool

37€ ~~22€~~ 59€

### Multi-Starter

- 8 x cartridges
- 8 x waste outlet sets
- 1 x extraction tool

257€ ~~129€~~ 386€

### Cartridge (replacement)

- 1 x cartridge

27€ ~~17€~~ 44€

### Multi-Cartridge

- 8 x cartridges
- 1 x extraction tool

194€ ~~106€~~ 299€

## Selected accounts only

### 'OEM' for urinal bundles

- 20 x cartridges
- 20 x waste outlets
- 20 x extraction tools

671€

## Spares:

### Waste Outlet Set

- 1 x waste outlet set

9€

### Extraction Tool

- 1 x tool

6,5€

## NATURAL, PRACTICAL, REMARKABLE THE VELTIA HYGIENE SYSTEM


The urinal is elegantly designed with clean lines and high sheen smooth surfaces. In addition to being aesthetically pleasing this has one vital advantage:

[Prevention of urine staying on the surface where it can lead to odour.](#)

Much of the odour associated with urinals are caused by the combination of water and urine mixing. Thus: No water – no smell

## CONSERVATION OF WATER.

No Flushwaterless urinals do not require the use of :

-  - organochlorine based toilet cleaners
- deodouriser blocks

*leading to a reduction of the toxic load on the environment.*

On top of that: No flushing is required! Thus no associated pipe work and cisterns are required for the installation.

No water used means less energy is used at the treatment works in retreating the flush water.

Installing just one NoFlush waterless urinal could

**save up to 100,000 litres of valuable water per year.**



## CONSERVATION OF WATER.

This reduction in water use, eases the burden on

- the drainage system
- the sewage treatment works
- the environment

Put another way: at 4,77 € per 1000 litres\*

With water costs expected to rise by in excess of 5% yearly\*\* this is the perfect time to install or switch to No Flush waterless urinals.

\*Wessex Water 2012

\*\* Ofwat 2012



# SAVE WATER, SAVE COSTS.

## Example

> 1.55 million installed urinals in the UK x Usage of water on average: 6 to 10 liters per flush

= 9,3 to 15,5 million liters of water used

The figures below assumes properly adjusted urinals set to 7.5 litres/hour per bowl. In reality urinal water use is almost certainly much higher than this. Given a rate of 5.13€ per cubic metre\*

Urinals number	10	10
Used hours/day	24	12
Days per week	7	5
Cost savings	3.128 € pa	1117 € pa
Water saved	655.200 litres/pa	234.000 litres/pa

\*Wessex Water 2012

# CAPITAL AND MAINTENANCE COST SAVINGS

**Average install cost** per urinal per typical flushing urinal: 617 €

**Shared costs** (assuming multiple urinals are to be installed) for:

- cistern
- cistern miser
- supply pipe work
- electrical connection

the **additional costs** are itemised as:

- Routine overhauling of moving valves and cisterns
- Replacement parts
- Water leaks due to wear and tear and damage
- Blockages
- Reduction in chemical/cleaner usage
- Logistics and call out

# CAPITAL AND MAINTENANCE COST SAVINGS

Average cost per urinal per year 523,606 €

Total Cost Saving with NoFlush waterless urinals

- Installation	205,702 €
- Water Saving*	312,892 €
- Maintenance etc	523,606 €

TOTAL SAVING PER URINAL 1042,20 €

PLUS THE ANNUAL SAVING THEREAFTER OF

**836,498 €**

\*5,10€ Wessex Water 2011



## ALTERNATIVE SAVINGS SEPTIC/WASTE TANK PUMP OUT / DISPOSAL

If the urinals are installed into temporary facilities as used in outdoor events, **additional waste water disposal costs** must be taken into account:

- Taking a 4 trough 1800mm system
- Given 360 visits per hour for a volume of 180 litres
- 9 hours per day
- Total 1620 litres per day in volume
- 4 cisterns at 4 flushes per hour
- 10 hours per day
- 1600 litres of water

# ALTERNATIVE SAVINGS SEPTIC/WASTE TANK PUMP OUT/DISPOSAL

## Total Cost Saving

- Installation 4 troughs	699,812 €
- Water Saving per week*	40,6667 €
- Maintenance per week	14,9602 €

TOTAL SAVING PER SYSTEM FIRST WEEK 755,439 €

Site disposal per week\*\* 523,606 €

TOTAL WEEKLY SAVING AFTER WEEK ONE 579,233 €

The reduction in sewerage tanker usage not only improves the event experience for the visitor, but also results in increased site safety and reduced environmental impact and fuel usage.

\*3.88€ Southern Water 2011

\*\*159.89€ per empty 3.5 empties

## VALUE PROPOSITION of the Veltia system.

The savings in maintenance and metered water is where the system really makes economic sense.

In cities with the highest sewerage and water rates, users can achieve dramatic savings by installing NoFlush waterless urinals.

In high traffic locations, savings of more than

- 872,676 € per urinal and year can be achieved within buildings
- 579,233 € per week for events and construction sites

# SERVICE AND MAINTENANCE

In addition to the benefits of the Veltia urinal itself there are additional benefits in servicing and maintenance over the Falcon/Aridian cartridge waterless urinal

The Veltia uses a silicon double valve opposed to a oil based cartridge in the Falcon/Aridian , this is very easily changed and requires no additional disposal or contact with maintenance personnel as well as being considerably cheaper as it lasts twice as long

<b>Cartridge</b>	NoFlush	Falcon
<b>Retail</b>	Cost Circa 45 €	Circa 47 €
<b>Claimed Life (No of uses)</b>	up to 15000 6 to 9 months	up to 5000
<b>Disposal Required</b>	YES	YES

## COST SAVING INSTALLATION

In addition to the annual water cost savings, there are also the following savings on installation and servicing:

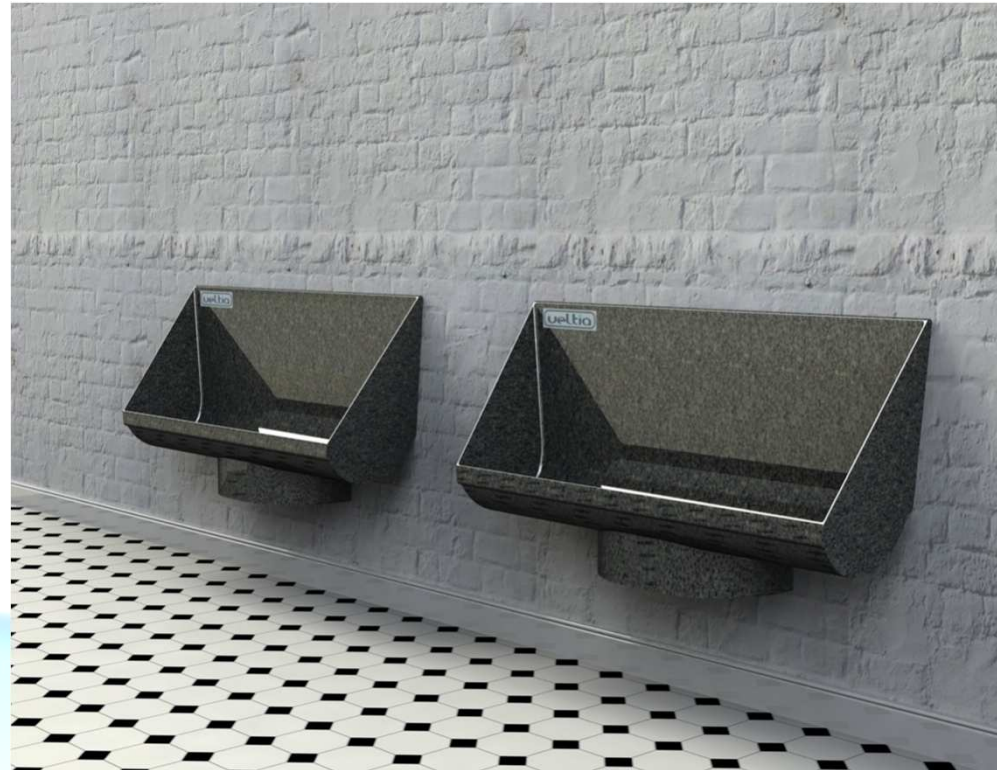
- No flush cistern required
- No associated pipe work
- No flush controllers or valves
- No electrical connections
- No emergency callouts for burst pipes
- No frost protection required
- No cartridge disposal

The above can amount to considerable annual additional costs all which can be avoided by installing No Flush urinals.

## SUSTAINABILITY COMBINED WITH FUNCTION & DESIGN.

The **GRP No Flush** has a high quality twin gel coat lay up construction. This gives it a durable high lustre finish that will not tarnish or discolour over time.

Independent testing of the No Flush model versus stainless steel alternatives have shown the No Flush to have increased durability to abuse and vandalism.



## KEY BENEFITS AT A GLANCE.

Summing up all the advantages No Flush urinals are accompanied by leads to the following conclusion:

- No water consumption or associated costs
- No moving parts or flushing mechanism to go wrong
- Cheap to maintain No Flush valve 50% less than cartridges
- Simple and easy installation in new or existing facilities
- No water supply pipes or worries about freezing
- Odour-free clean environment
- Reduced bacteria due to absence of water
- No limescale or clogging of pipes – low maintenance
- Maintenance regime unchanged as tolerant to chemicals

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