

## *Britex Waterless & Limited Flush Urinals*



### OVERVIEW

Britex Waterless & Limited Flush Urinals are Australian products, designed and manufactured to operate within the harsh conditions found throughout Australia and within similar climates throughout the world.

Unlike most waterless urinals on the market today, Britex Waterless & Limited Flush Urinals do not require constant maintenance of messy cartridge's which require regular replacement or chemical replenishment to be effective. Instead, Britex Waterless & Limited Flush Urinals utilise a self-sealing, one way diaphragm that allows urine to pass, whilst trapping all odours within the sanitary system.

A realistic approach in the design concept of Britex Waterless Urinals was taken, so as not to fall into the trap so many other manufacturers have experienced. Britex Waterless Urinals are not waterless in the true sense and depend on fresh water cleaning to balance functionality and efficiency. Therefore, as with all urinals and in line with good hygiene practices, regular cleaning is essential to remove struvite, (Urine Crystallisation, commonly yellowish to brownish in colour), calcium phosphate and magnesium precipitation from the surface of the urinal and within sanitary pipes.

Whilst maintaining the goal for water conservation in hand with a realistic and practical approach in maintaining hygiene standards and eliminating plumbing issues, Britex also provides "Mist" and "Auto Mist" models for all waterless urinals, to assist in regular water dosing. The Mist model is supplied with a water connection only whilst the Auto Mist is supplied with a Britex Hygiene Clean which provides an automatic periodic 0.5L burst of water mist over the urinal wall. This common sense feature, which conforms to the highest water saving standards for waterless urinals, removes many of the messy complexities that contribute to odour from exposed surface areas associated with no flush urinals and it also assists with pipe cleaning.

### Care & Maintenance

Ensuring that cleaning staff are aware of the correct procedures is essential in maintaining any waterless urinal. Cleaning staff also need to be aware of the type of waterless urinal that they are maintaining, as there are 4 common systems currently available within the market and they each have a unique cleaning and maintenance procedure. Maintenance documentation is available for waterless and limited flush urinals on the Britex web site, [www.britex.com.au](http://www.britex.com.au)

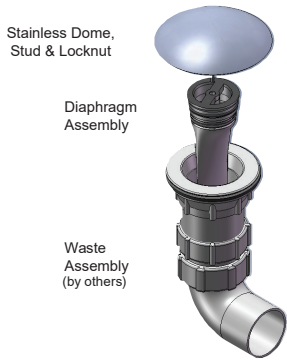
#### 1. Cleaning Schedules

Basic cleaning of all waterless urinals is crucial to preserve a smooth surface allowing unobstructed flow of liquids. Washing the surface of the urinal should be completed at regular intervals, at least, once a week for low volume usage and daily to alternate days for high volume usage. Limited Flush Urinals fitted with a Hygiene Clean or regularly sluiced with water, can have extended cleaning schedules. Maximum time frames between cleaning schedules should not exceed 4 weeks. In accordance with good housekeeping practices, it is recommended that urinals are monitored on a regular bases to determine acceptable schedules.

#### 2. Cleaning Method

Basic cleaning should consist of removing any debris and foreign matter within the base of the urinal. Spraying the urinal with a non alkaline disinfectant or fresh clean soapy water. Alkaline chemicals (Bleach or Hydrochlorics) should not be used. A soft cloth or soft bristled brush should then be used to clean any grime from the surface of the urinal, ensuring that the finished coat is preserved smooth without abrasion or scratching. Once, the surface is sufficiently clean, sluice the urinal with a bucket of warm fresh water to wash away any contaminated residue remaining from the cleaning process. This practice also aids in the disbursement of urine within the branch arm of the sanitary drain.

## Dome, Diaphragm & Waste Assembly; Spare Parts



Waterless Outlet Assy  
c/w Bladder  
Assembly and O Rings  
(Ø refers to waste size)

**72-05-0032:** Ø50mm  
(models after 2009\*)

**72-05-0030:** Ø58mm  
(models prior to 2009\*)

\* guide only



Dome Polished  
complete with  
M6 x 50mm Stud

**72-05-0011**

## Waterless Diaphragm Outlet - Care & Maintenance

A key element of the Britex waterless urinals is the simplicity of the one-way waterless diaphragm outlet utilised within the design of the urinals which prevents odour dissemination. The life span of the diaphragm will last a number of years if the following maintenance procedures are sustained.

1. Ensure that the stainless steel dome covering the outlet of the urinal is adjusted down correctly allowing only a small space between the dome and urinal for liquid to pass. A space no greater than 1.5mm is recommended. This will then contain any foreign matter within the urinal that can be removed within the cleaning process. A large space between the outlet dome and the urinal will allow foreign matter to pass and lodge within the diaphragm. This then prevents the diaphragm from closing properly, causing further obstructions and the release of odour from the drainage pipes.

2. Alkaline chemicals (Bleach or Hydrochlorics) should not be used to clean the urinal. Do not tip cleaning chemicals or mop bucket water down the outlet of the urinal. Alkaline chemicals will break down the composition of the diaphragm causing the diaphragm to lose its memory. The presence of alkaline chemicals passing through the diaphragm is usually indicated by the diaphragm resembling distortion as if it has been subjected to heat and / or being very sticky. Should this occur then the diaphragm outlet needs to be replaced.

3. If the urinal has not been fitted with a limited flushing device or Hygiene Clean, then the urinal should be sluiced with a warm bucket of water at least once a week to aid in the removal of struvite and calcium phosphate within sanitary pipes.

## Replacing the Diaphragm Assembly

Should the waste diaphragm require replacement, then it is recommended that eye protection and rubber gloves are worn to perform the following procedure.

1. Unscrew the stainless steel dome allowing adequate room for a firm grasp to be placed around the dome.
2. Apply an upward pressure to lift the dome, breaking the "o" ring seal removing the diaphragm assembly.
3. Unscrew the dome from the boss and discard the diaphragm assembly.
4. Screw the dome into the new diaphragm assembly boss and then place the new diaphragm into the waste housing, applying gentle pressure to ensure that it is seated correctly.
5. Screw the dome down and back into position ensuring a gap of no more than 1.5mm. The lock nut on the stud of the dome may need to be adjusted to achieve the 1.5mm gap.
6. Pour clean water into the urinal to test the outlet.

## Cleaning of Waste Fittings and Branch Piping

As with any urinal, proper cleaning is important to keep the urinal clean and to prevent stains and struvite from forming. Although Britex urinals have a recommendation to be regularly sluiced with water, significantly reducing common occurrences of struvite and calcification, there is still the potential for hidden pipe work to be effected. Calcium and magnesium based minerals and salts can precipitate and build up in the pipes and fittings, the severity dependent on the pipe lengths and configuration. To reduce the risk of blockages, it is recommended that the following procedure is carried out once every six months to remove internal pipe calcification.

1. Ensure that eye protection, rubber gloves and a vapour mask are worn to perform the following procedure.
2. Remove the waterless diaphragm assembly as per item 1 - 2 within the "Replacing the Diaphragm Assembly" instructions above and put to one side.
3. Mix a 2 litre solution of caustic soda solution (2 parts water to 1 part caustic soda). Pre-mixed solutions are available from certain retailers.
4. Taking care not to flood the urinal with the solution, pour the solution directly into the urinal outlet.
5. Leave for approximately 15 minutes and then pour a generous bucket of fresh water down the outlet.
6. It is imperative that all traces of the caustic soda solution are removed from the surface of the urinal. Clean the urinal as per the cleaning instructions above with a soft cloth or soft bristled brush, ensuring that repetitive sluicing with fresh water removes all traces of the caustic soda solution.
7. Replace the waterless diaphragm assembly as per item 4 - 6 within the "Replacing the Diaphragm Assembly" instructions above.

If regular maintenance procedures for waterless urinals has not been conducted on a regular basis and / or blockages are present within pipe configurations, then manual removal of calcification within pipes and fittings will need to be performed by qualified personnel.

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