

No-touch washrooms by  Dart Valley Systems
a FRANKE company

Specialising in water saving technology for commercial washrooms, Dart Valley Systems has been producing leading automatic washroom technology for over 25 years.



DVS is a market leader in the field of water saving products along with automatic washroom products for specialist applications, including the healthcare, mental healthcare, custodial and public sector markets.

Alongside the extensive product portfolio of WC flushvalves, urinal controls, automatic taps, safe ensembles and water management controls, an expert team of engineers are on hand to support installations, whilst our technical sales teams give tailored project support and specification advice.

Combining the benefits of reduced water consumption with a focus on hygienic design, DVS products have been used reliably in some of the most demanding commercial environments for many years.



*Not applicable to all products. For full details of WRAS and ECA approved products please contact DVS.

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Should you have any queries regarding products for your particular application please do not hesitate to call our sales office on 01803 529021 or email: sales@dartvalley.co.uk

WC FLUSHING

WRAS
APPROVED
PRODUCT



A hygienic washroom solution; A range of no-touch flush options are combined with leading flushvalve technology to deliver considerable water savings. Stylish and discreet, our range of no-touch WC flushing options can be retro fitted or installed at new build stage.

WC Flushvalves with sensors >>
and backplates

WC Flushvalves offer an average of
30% water saving ...

MANUFACTURED

IN THE UK

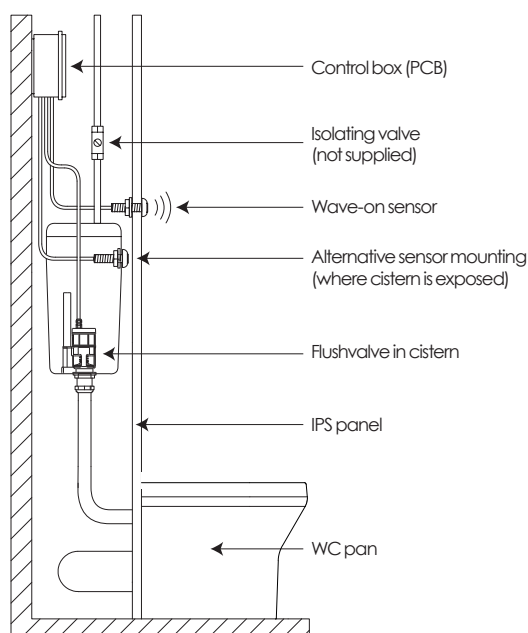
The DVS no-touch WC flushing system is an electronically operated drop valve which replaces the traditional syphon and delivers a measured volume of water from the cistern to the lavatory bowl. A simple wave of a hand past the fitted sensor will activate the electronic Flushvalve.

Offering reduced water consumption, the optimum quantity of water from each flush is pre-set and accurately controlled. The easy to use no-touch WC flushing system is triggered by an electronic infrared sensor which is activated when the user's hand comes within 50mm of the sensor. With no handles to touch, the risk of cross infection is eliminated.



« WC01-022
WC Flushvalve
with built-in overflow

STANDARD SETUP



Typical installation diagram intended as a guide only and appropriate regulations should be adhered to.

Features include:

- ▶ 4.5 litre flush
- ▶ Typical 30% savings on water costs
- ▶ Adjustable for optimum flush
- ▶ Improves flush
- ▶ Ideal for disabled or elderly
- ▶ Hygienic no-touch operation
- ▶ Optional tactile operation
- ▶ Easy to install and maintain
- ▶ Fits existing and new WCs
- ▶ Vandal proof
- ▶ Eliminates handle maintenance
- ▶ Dual flush
- ▶ Wave-on or fully automatic flush
- ▶ Lock outs (for custodial and mental health)
- ▶ Increased ambient temperature (55°)
- ▶ Purge facility

HOW IT WORKS

Electronically operated, the Flushvalve delivers a measured volume of water upon activation. The timer can be adjusted to any setting between 1 and 6 seconds, to deliver the optimum flush. The Flushvalve is activated when the user's hand passes within 50mm of the sensor (tactile push sensors can be fitted if required). A 35 second delay mechanism prevents abuse between flushes by the user.

An electromagnetic solenoid coil is central to the operation of the Flushvalve. Upon activation, an electromagnetic field is created within the upper part of the body. This draws up a metal piston which instantly opens the valve and releases the water full bore through the flush pipe into the WC. At the end of the timed flushing cycle, the electrical supply is cut off, thereby deactivating the solenoid and returning the valve to its normally closed position. The flush repeatability is very accurate.

Our safe and reliable system contains few moving parts, requires no maintenance and is easily installed in existing and new cisterns using industry standard fittings.

WC Flushvalves are fitted in a wide variety of commercial and public buildings, and have proven to be a tried and tested solution, unchallenged in performance and reliability, offering a robust vandal proof solution.

DVS Flushvalves are used widely in hospitals to help reduce healthcare acquired infections. No-touch WC flushing stops hand contact with potentially contaminated handles.

Water saving is important to everybody and retro-fitting WC Flushvalves can save an enormous amount of water in busy public toilets. The reliability, robustness and vandal proof nature of the DVS WC Flushvalve also makes it an ideal choice for schools and colleges, eliminating the nuisance of term time maintenance.

WC Flushvalves have been fitted in most of the busiest UK airports and are proven to be unchallenged in performance and reliability, with the busiest cubicles peaking at nearly 400 flushes per day.

SENSORS

Wave-on sensors or tactile switches are available, both with either 38mmø or 50mmø bezels.



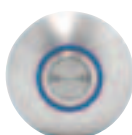
AC02-009
Wave-on sensor with 38mmø chrome bezel



AC02-093
Wave-on sensor with 50mmø chrome bezel



AC02-040
Wave-on sensor with 50mmø brushed bezel and blue (cold) insert



AC02-046
Tactile switch with 50mmø s/steel bezel and blue (cold) insert



WC00-028
Auto sensor with 63mmø chrome bezel.

WC Auto Flush Sensor

This additional sensor is designed to detect an occupier. If the optional manual sensor is not operated it will flush automatically.



WC00-020
80mmø chromed brass

Backplates

The standard kit includes the DVS 80mmø backplate and 38mmø bezel.

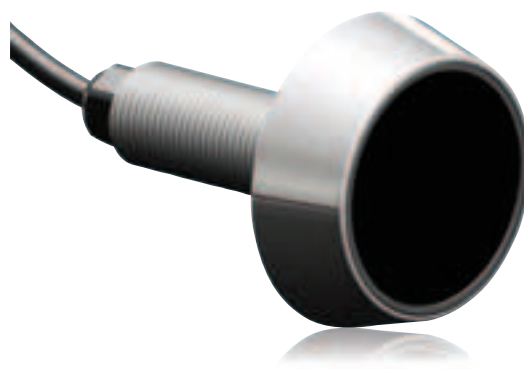
WC FULLY AUTO FLUSHVALVE

Ensures toilet is flushed!

The WC Fully Auto Sensor can be mounted behind the toilet to detect a user for fully automatic flushing used in conjunction with a WC kit or retro-fitted later.

If the user does not operate the manual flushing sensor the toilet will flush automatically a few seconds after they have left the toilet area.

The WC Fully Auto Flushvalve uses the same Flushvalve as the standard no-touch WC Flushvalve; with all the same features and benefits but with the added 'Auto Sensing' facility.



WC00-028
Fully auto sensor with 63mmø chrome bezel.

MANUAL OVERRIDE



WC00-006
Manual Override Plate

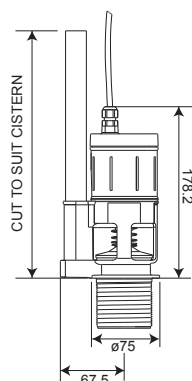
DUAL FLUSH PLATE



WC00-097
Dual Flush Plate

Dimensions

STANDARD KIT PARTS

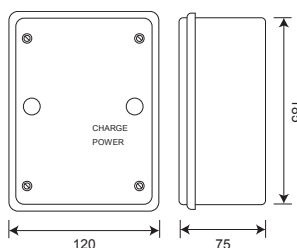


WC01-022

WC Flushvalve

Cable length: 3m

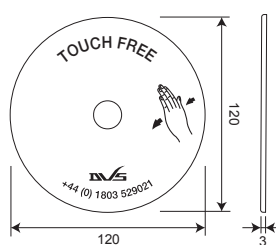
Fixing: Standard 1 1/2"
(2" available)



WC00-010

Control box (PCB)

Mains cable length: 1.5m



WC00-021

120mm disabled back plate

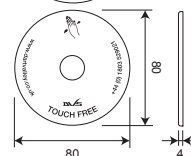
Suitable only for 16mm threaded sensors with either 38mm or 50mm bezels. If required for other sensors please enquire.



Full flush back plate
WC00-022



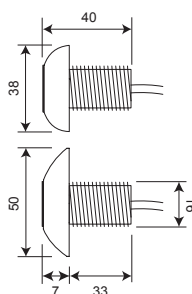
Half flush back plate
WC00-023



WC00-025

80mm back plate

Suitable only for 16mm threaded sensors with 38mm bezels. If required for other sensors please enquire.

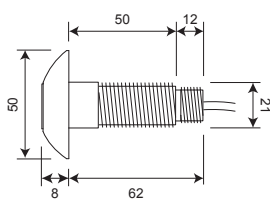


AC02-009

Wave-on sensors with 38mm and 50mm bezels

Cable length: 3m

Fixing: 3/8" BSP
(17mm clearance drill hole)

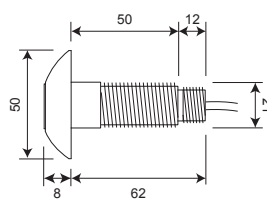


AC02-040

Anti-vandal wave-on sensor with 50mm bezel

Cable length: 3m

Fixing: 1/2" BSP
Fixing for extension: 3/8" BSP
(22mm clearance drill hole)

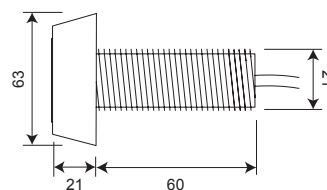


AC02-046

(blue insert) Tactile switch with 50mm bezel

Cable length: 3m

Fixing: 1/2" BSP
Fixing for extension: 3/8" BSP
(22mm clearance drill hole)



WC00-028

AUTO sensor with 63mm bezel

Cable length: 3m

Fixing: 1/2" BSP
(22mm clearance drill hole)

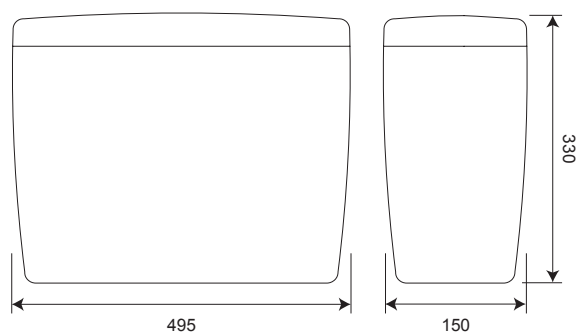
Please note: Illustrations not to scale

Major clients include:

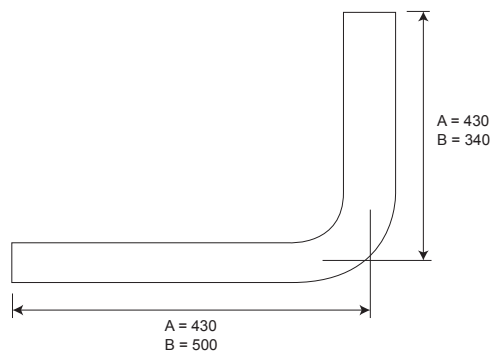
- ▶ BAA Airports
- ▶ Marks & Spencer
- ▶ Tesco
- ▶ NHS Estates
- ▶ Corporation of London
- ▶ Local Authorities

Dimensions

ACCESSORIES

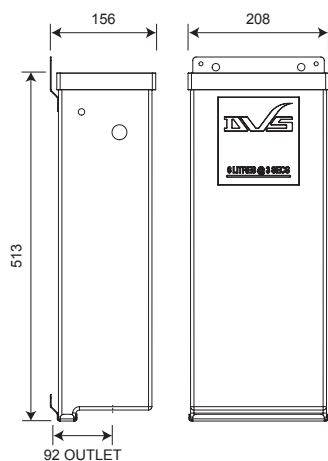


WC02-001
Concealed plastic cistern

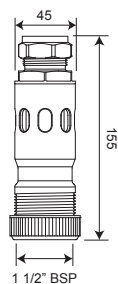


WC02-031
1½" x 1½" (A) Flushpipes

WC02-032
1½" x 2" (B) Flushpipes

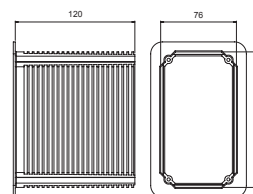


WC02-003
Concealed plastic cistern - Vertical

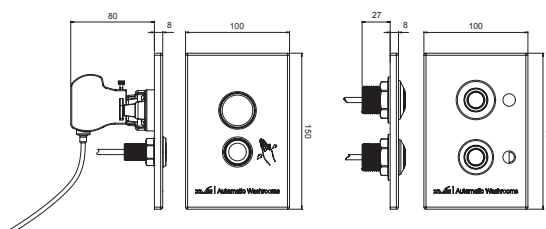


WC00-098
Air break (back flow preventer) for WC

Fixing: 28mm inlet 38/40mm outlet.
Reducing sets available to reduce 28mm inlet to 22mm.



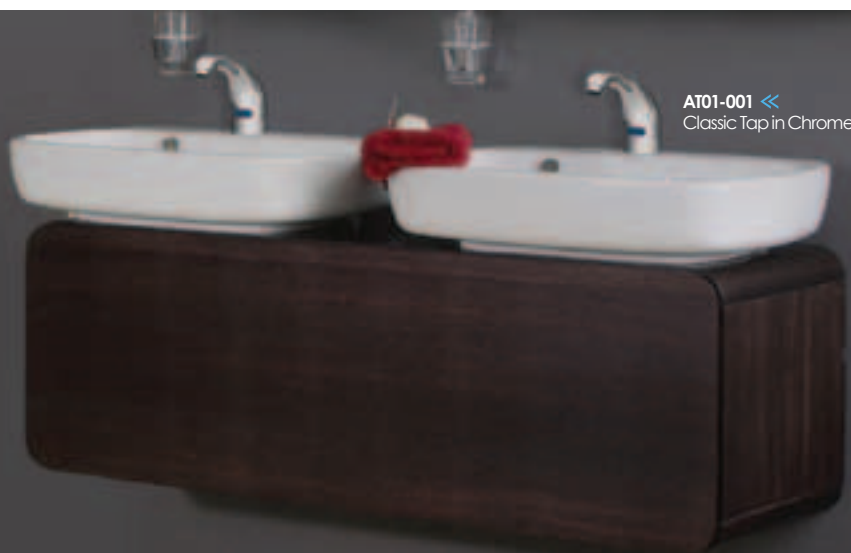
WC00-084
Wall conduit for Flush Plates



WC00-006
Flushvalve Manual Override Plate:
Can be fitted to IPS panels or wall upto 120mm thick

WC00-097
Half Flush Full Flush Plate:
Can be fitted to IPS panels or wall upto 120mm thick

Please note: Illustrations not to scale



AT01-001
Classic Tap in Chrome

WC02-009
WC Flushvalve with sensor

WC FLUSHING

Kits

Standard kits come with a Flushvalve, control box (PCB), 80mmØ chrome backplate and wave-on sensor with 38mmØ bezel. The WC Flushvalve has a cable length of 3m.

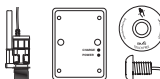

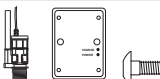


Flushvalve Bases

Alternative Flushvalve bases are available. Please advise the type you require i.e. 1 1/2", 2" or connections for specific cisterns.




Slimline Flushvalve

Valves for slimline 'in wall' cisterns. Special bases available for existing in wall cisterns.

WC Flushing Kits

| Profile (Not to scale) | Code | Description |
|---|-----------------|--|
|  | WC03-002 | Standard WC Flushvalve kit with in-built overflow and wave-on sensor - 1 1/2" base |
| | WC03-003 | Standard WC Flushvalve kit with in-built overflow and wave-on sensor - 2" base |
| | WC03-004 | Version 2 Flushvalve kit with Geberit fitting base - c/w 3m cable |
| | WC03-005 | Version 2 Flushvalve kit with Grohe fitting base - c/w 3m cable |
| | WC03-007 | Version 2 Flushvalve kit with 1 1/2" fitting base c/w 15m cable |
| | WC03-008 | Version 2 Flushvalve kit with 2" fitting base c/w 15m cable |
|  | WC03-012 | Standard WC Flushvalve kit with 50mm Chrome bezel |
| | WC03-022 | WC Flushvalve kit with in-built overflow and anti-vandal wave-on sensor - 1 1/2" base |
|  | WC03-028 | WC Flushvalve kit with in-built overflow and tactile switch - 1 1/2" base |
| | WC03-032 | Version 2 Flushvalve 1 1/2" c/w Manual Override kit (Excluding conduit kit) |
| | WC03-040 | Standard WC direct flushing system kit - 220v |
| | | Δ Notes: Conduit kit required for wall thicknesses up to 120mm. See page 8. |
|  | AC02-009 | 38mm Chrome wave on sensor pack c/w 3m cable |
| | AC02-011 | 38mm Chrome wave on sensor pack DVS backplate c/w 3m cable |
| | AC02-010 | 38mm Chrome wave on sensor pack c/w 15m cable |
| | AC02-012 | 38mm Chrome wave on sensor pack DVS backplate c/w 15m cable |
|  | WC00-028 | Infra-red sensor for the AUTO Flushvalve (price includes bezel) |
| | | Δ Notes: The AUTO version of the WC Flushvalve uses an extra sensor to detect and is used in conjunction with the kits above. |

Accessories & Replacement Parts

| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | AC02-001 | Standard wave-on sensor included in WC kits (price excludes bezel) - c/w 3m cable |
| | AC02-002 | Extra long cables are available, but must be specified when ordered. Wave-on sensor (price excludes bezel) - c/w 15m cable |
|  | AC02-003 | 38mmØ chrome bezel for wave-on sensor - Normally used with 80mmØ backplate |
| | AC02-005 | 50mmØ chrome bezel for wave-on sensor - Normally used on exposed cistern |
|  | WC00-025 | 80mmØ chrome backplate |

WC FLUSHING







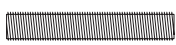
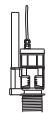
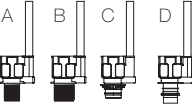
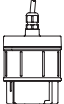
Anti-Vandal Sensors

Standard sensors and bezels are relatively vandal proof. If fixing to walls of 100mm or more, or if serious vandal resistance is required please consider the AC02-040 anti-vandal sensor and appropriate extension.

Sensor Thread Lengths

Standard kits have sensors with 35mm long threads suitable for maximum panel thickness of 18mm. For fixing to thicker walls please order extensions.

Accessories & Replacement Parts



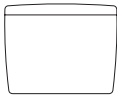




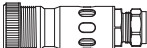
| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | WC00-022 | 80mmø chrome back plate - Full flush |
|  | WC00-023 | 80mmø chrome back plate - Half flush |
|  | WC00-021 | 120mmø stainless steel disabled back plate (larger plate with larger type and graphics) |
|  | AC02-006 | 50mmø stainless steel bezel for wave-on sensor |
|  | AC02-040 | Anti-vandal wave-on sensor with 50mmø stainless steel bezel - c/w 3m cable |
| | AC02-046 | Tactile switch with Blue insert and 50mmø stainless steel bezel - c/w 3m cable |
| | AC02-043 | Anti-vandal wave-on sensor with 50mmø stainless steel bezel Blue insert c/w 15m cable |
| | AC02-049 | Tactile switch with Blue insert and 50mmø stainless steel bezel c/w 15m cable |
| | | ▲ Notes: Primarily for use in custodial applications. |
|  | WC00-006 | Manual Override Wall Fitting, Plate and Sensor for V2 WC Flushvalve |
| | WC00-097 | Dual Flush Wall Fitting Plate for V2 WC Flushwave c/w 2 tactile switches |
| | WC00-084 | Wall conduit for Flush Plates |
|  | AC02-060 | Sensor thread extension for 70mm wall thickness |
| | AC02-057 | Sensor thread extension for 150mm wall thickness |
| | AC02-058 | Sensor thread extension for 250mm wall thickness |
|  | WC01-022 | Flushvalve with in-built overflow (valve only) - 1 1/2" base |
| | WC01-023 | Flushvalve with in-built overflow (valve only) - 2" base |
| | WC01-025 | Flushvalve with in-built overflow (valve only) - Grohe fitting base |
| | WC01-024 | Flushvalve with in-built overflow (valve only) - Geberit fitting base |
|  | WC01-012 | Flushvalve with in-built overflow (base only) - 1 1/2" base (A) |
| | WC01-013 | Flushvalve with in-built overflow (base only) - 2" base (B) |
| | WC01-014 | Flushvalve with in-built overflow (base only) - Geberit fitting base (C) |
| | WC01-015 | Flushvalve with in-built overflow (base only) - Grohe fitting base (D) |
| | WC01-002 | Flushvalve replacement body |
|  | | |

WC FLUSHING

Flushvalve Bases

Available in 1 1/2" BSP, 2" BSP and to suit various in-wall cisterns.
If the fitting you require is not shown please contact our sales team on 01803 529021.

Accessories & Replacement Parts (continued)

| Profile (Not to scale) | Code | Description |
|---|-----------------|--|
|  | WC00-001 | Flushvalve replacement stainless steel piston and spring - Suitable for all models |
| | WC00-003 | Flushvalve replacement spring only - Suitable for all models |
|  | WC00-010 | Control box (PCB) for WC Flushvalves |
| | WC00-011 | Control box (PCB) for D099 - 220v |
|  | WC02-011 | Concealed plastic cistern kit - 1 1/2" |
| | WC02-012 | Concealed plastic cistern kit - 2" |
| | WC02-001 | Concealed plastic cistern - Cistern only - 1 1/2" |
| | WC02-002 | Concealed plastic cistern - Cistern only - 2" |
|  | WC02-013 | Concealed plastic cistern kit - Vertical - 1 1/2" |
| | WC02-014 | Concealed plastic cistern kit - Vertical - 2" kit |
| | WC02-003 | Concealed plastic cistern - Vertical - Cistern only - 1 1/2" |
| | WC02-004 | Concealed plastic cistern - Vertical - Cistern only - 2" |
|  | WC02-033 | WRAS approved side entry valve - Individual |
| | WC02-037 | Delayed fill float valve - Individual |
|  | WC02-031 | Standard 38mm flushpipe (430 x 430) - 1 1/2" to 1 1/2" |
| | WC02-032 | 50mm to 38mm flushpipe (340 x 500) - 2" to 1 1/2" |
| | WC02-035 | Flushpipe connector |
|  | WC00-004 | Toilet tank reduction bag |
| | | Notes: Expands when placed inside cistern and saves 1 litre per flush. |
|  | WC00-098 | WC airbreak (back flow preventer) - 28mm inlet 38/40mm outlet |

URINAL CONTROLS

WRAS
APPROVED
PRODUCT



Offering substantial water savings and a short payback period, installing urinal controls is often the first step in a water management programme. Urinal controls also ensure that washrooms remain clean and fresh, by programming the controls to meet the individual needs of each building.

Urinal control system >>

Urinal controls offer an average 55%-65% water saving ...

MANUFACTURED

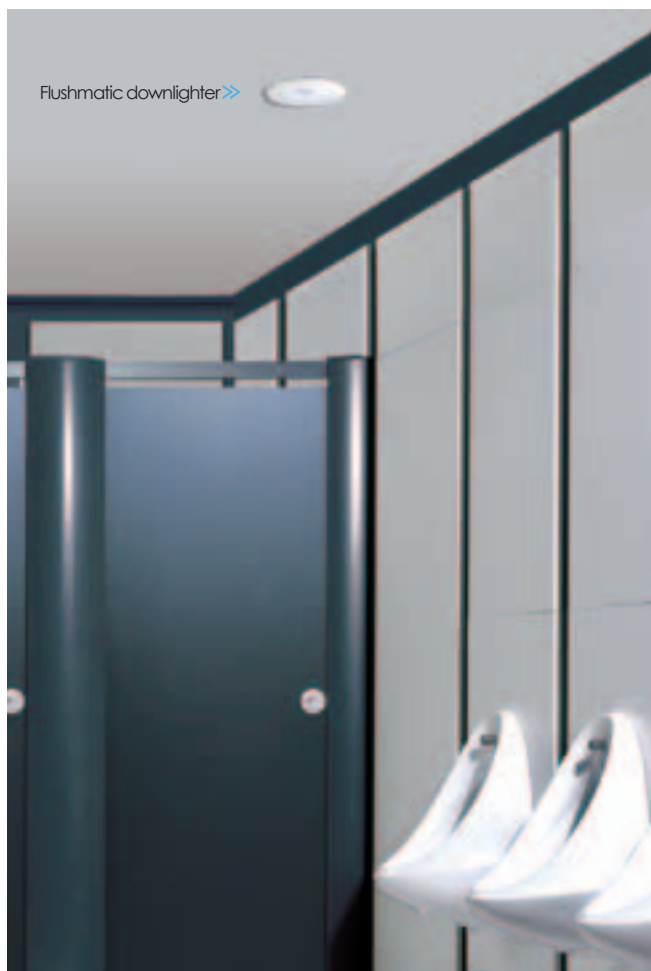
IN THE UK

The DVS urinal control range has been designed and developed over years of experience working in washrooms. The units are easy to install and extremely versatile in their operation.

Variable settings allow adjustable time delays between flushing, providing maximum efficiency and savings. Operation is simple; A passive infrared (PIR) detector detects movement within the 'sensing area', switching the unit into a timing mode. After a pre-set time, the separately installed solenoid valve opens. Water flows into the cistern and therefore activates the flushing cycle. The fill-time for the cistern can be customised by the user, using the appropriate switches on the Flushmatic board.

The system's fast fill design helps eliminate scale problems associated with slow or drip fed systems. An automatic flush every 12 hours is also programmed into the unit, should the system not be used during that time.

Variable settings allow adjustable time delays between flushing, providing maximum efficiency and savings.



Common Features

- ▶ Up to 80% savings on water costs
- ▶ Extremely reliable
- ▶ Low maintenance
- ▶ 2 year guarantee
- ▶ Low power consumption
- ▶ Solenoid valve included
- ▶ Includes power PSU or batteries
- ▶ Adjustable fill time (15 mins max)
- ▶ Adjustable delay time
- ▶ Janitorial flush (After 12 hours of non-use)
- ▶ Service contracts available

HOW THEY WORK

DVS supply a range of urinal controls for individual or multiple station urinals. Optimum solutions are available to suit every application.

The Flushmatic urinal control is used for multiple station urinals and can be surface or ceiling mounted. This works by using a passive infrared (PIR) detector which detects movement within the 'sensing area', switching the unit into a timing mode.

After a pre-set time, the solenoid valve opens allowing water to flow into the cistern activating the flushing cycle.

The fill-time for the cistern can be customised by the user using the appropriate switches on the Flushmatic board. There is also a set of dip switches to adjust the time delay after activating the PIR.

The system's fast fill design helps eliminate scale problems associated with slow or drip fed systems.

An automatic 'janitorial' flush every 12 hours is also programmed into the unit, should the system not be used during that time.

The individual sensing urinal control systems are designed to detect individual users and only flushes when the user walks away.

DVS offer kits for single or double bowl requirements.

Installing just 3 DVS urinal controls can save enough water to fill an Olympic sized swimming pool in just 1 year!

URINAL CONTROLS



UC01-001 <<
Flushmatic surface mount

Flushmatic - Surface Mount

The standard Flushmatic is a wall or ceiling 'surface mounted' urinal control for multiple station urinals.

Special Features

- ▶ Timed urinal flushing
- ▶ Valve open button
- ▶ Ceiling or wall mountable
- ▶ Available in mains or battery
- ▶ Battery low detection and indication (optional)



UC01-018 <<
Flushmatic downlighter
(standard downlighter size)

Flushmatic - Downlighter

The Flushmatic downlighter is a suspended ceiling urinal control for multiple station urinals.

Special Features

- ▶ Flush ceiling mounted
- ▶ As Surface Mount Flushmatic (except fitting)

Our range of urinal controls are suitable for individual or multiple station urinals. Optimum solutions are available to suit every application.



UC01-019 <<
Pearl downlighter
(small downlighter size)

Pearl

The Pearl is a suspended ceiling urinal control for multiple station urinals. This unit is the size of a mini-downlighter and incorporates low battery indication.

Special Features

- ▶ Occupancy detection and indication (indicated by a flashing green light)
- ▶ Battery low detection and indication (indicated by a flashing red and green light)
- ▶ Valve closed before battery failure (indicated by a flashing red light until total battery loss)
- ▶ Timed urinal flushing
- ▶ Valve open button
- ▶ Available in mains or battery



UC07-001 <<
Urinal control system

Individual Control System

The individual operation urinal control system can be supplied for single or double station urinals. Standard sensor comes with 50mmø bezel.

Special Features

- ▶ Single or double station urinal flushing
- ▶ Only flushes when user walks away from urinal
- ▶ Mains power only

Major clients include:

- | | |
|-----------------------|---------------------|
| ▶ Ministry of Defence | ▶ Road Chef |
| ▶ Tesco | ▶ Local Authorities |
| ▶ BAA Airports | ▶ Marks & Spencer |



CASE STUDY

Churston Ferrers Grammar School

Churston Ferrers Grammar School was selected by OGC buying solutions to provide a detailed case study with a well managed school to establish some guidelines on realistic cost effective savings for water management, with DVS selected as the ideal partner to deliver technical advice, product recommendations and high quality water saving products.

By installing urinal controls, flushvalves and push taps, considerable water efficiencies were achieved.

Water savings of 46% in the year following installation

When the school site was reviewed, DVS established that the majority of urinal controls were not functioning correctly, which the school had been unable to identify. This is common in schools where urinal controls have been fitted in the last 10-15 years.

Old urinal controls were one of the biggest sources of waste – Just 1 in 7 of the old controls were operational

6 new urinal controls were fitted, plus a maintenance contract to ensure optimum long term savings

With around 450 female staff and pupils, and WCs flushing 9 to 11 litres per flush, DVS recommended fitting electronic WC Flushvalves in the 15 busiest ladies toilets. Whilst the WC Flushvalves could also provide savings in the male WCs, the use was not so high and the payback period longer, so after evaluation DVS recommended an alternative low cost solution using 1 litre displacement bags to reduce water consumption without compromising the efficiency of flushing.

WC Flushvalves fitted in the busiest female WCs

Displacement bags fitted in cisterns of low traffic male WCs

Phase 2 of the project revealed the poor state of the existing push taps in all but one new toilet block. Replacement and upgrading took place as and when refurbishments were undertaken.

Old push taps resulted in excessive water flow and run time

New water efficient self closing non-concussive taps were installed

The school also has evening classes, a swimming pool and sports hall used by members of the public, however by tackling the main water saving areas the level of savings achieved has been maintained over the following years bringing the school up to best practice standards, whilst offering consistently high levels of hygiene.



DVS has developed two powerful Urinal Sleeve solutions to help reduce smells and blockages and also save water.

URINAL SLEEVES

Unpleasant smells and blockages

Gents toilets frequently have problems with unpleasant smells of urine and blocked flushpipes putting bowls out of use.

Conventional urinal blocks inside the bowl can add to the problem and increase the potential for blockages. Unfortunately these blocks only attempt to mask the unpleasant smells and provide no real long-term solution.

Cure the problem at source!

The DVS Urinal Sleeve helps to prevent the problems which contribute to urinal odours. After the initial Urinal Sleeve outlet is installed the replacement sleeves simply drop into place.

The Urinal Sleeve lower body lines the waste outlet and trap just above the water level. This feature not only prevents leaking and staining from waste connections, but is also removed and discarded periodically as part of the refill, thus ensuring the lining is kept clean.

The most important feature of the Urinal Sleeve is housed within its cone shaped head. This contains a cleaner deodoriser block which both reduces bio-film build up, reduces the odour and scale in the outlet and helps prevent blockages.

The teardrops on the side of the cone allow urine to pass onto the active ingredient, thus activating and transferring the cleaner deodoriser via the sleeve to the trap where they act on the urine preventing the foul odours. The block also contains a fragrance to provide a pleasant environment.

Timed Urinal Control System

Although the biological version of the Urinal Sleeve is an effective waterless solution, a more effective result for high traffic areas can be achieved by periodically flushing the urinals with clean water. This helps keep the urinal clean and also re-activates the block inside the head of the urinal sleeve.

DVS' solution for achieving periodical flushing is the 'Timed Urinal Control System'. This is a programmable control system that can be customised to achieve the number of flushes required.



UC00-017
Urinal Sleeve Bio
- Refill



UC00-007
Urinal Sleeve Bio
- Installation Kit



UC01-010
Timed Urinal Control
System

UC00-013
Urinal Sleeve Chemi
- Refill

UC00-009
Urinal Sleeve Chemi
- Installation Kit

The specially formulated dual-purpose block both controls odours and reduces bio-film build up.



Two Solutions

The Urinal Sleeve offers two types of solution, BioUrinal and ChemiUrinal, each doing similar jobs but aimed at different environments.

BioUrinal

The BioUrinal can be very effective in low to medium use areas. Flushing should be limited to once every two hours to get the best performance from biological sleeves.

The enzymes feed on the uric salts and require two hours to multiply to be fully effective. In busy toilets, such as airports, motorways services and busy factory toilets it may be found that to keep the bowl fresh a more frequent flush is required.

Normally scale and bio-films with bad odours build up on the lining of the inlet trap. The biological treatment reduces this build-up.

The biological cleaner deodoriser is fitted into the cone. The teardrops on the side of the cone allow urine to pass onto the block, thus activating the enzymes and transferring the enzymes via the sleeve to the trap where they feed and multiply.

Only biological cleaners should be used with BioUrinal sleeves as conventional cleaners kill the enzymes.

The BioUrinal sleeve is recommended when there is a requirement to save the maximum amount of water, and limited washing of the bowl is acceptable, where the use is low to medium. The BioUrinal sleeve should be replaced every 3 months.

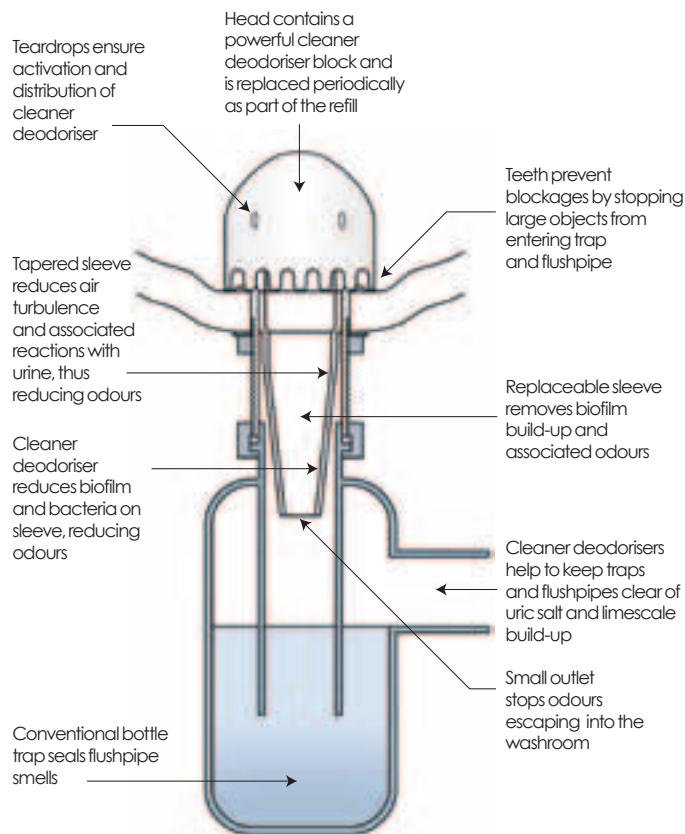
ChemiUrinal

The ChemiUrinal sleeve achieves a very similar effect to the BioUrinal sleeve. The cleaner deodoriser is a well proven chemical formula designed to reduce uric salt and scale build up in the trap and flush pipes and also kills malodours.

There are a number of advantages of the chemical cleaner deodoriser solution. The product is effective no matter how often the urinal bowl is flushed and is therefore beneficial in busy toilet areas including airports and motorway services as well as low to medium use toilets.

The product can be utilised with existing flushing systems to help reduce smells and keep pipes clear.

The ChemiUrinal sleeve can also be used in conjunction with conventional cleaners. Therefore if there is a risk of cleaners not always using biological cleaners the ChemiUrinal sleeve will resolve this issue. Replacement times will depend on frequency of flushing and levels of use.



CHOOSING BIOURINAL OR CHEMIURINAL SLEEVES

The following guide gives an indication of Urinal Sleeve and water flush control selection. DVS are pleased to advise and assist with trials.

| Type of environment | Low to medium use | Heavy periods of use | Continual heavy use | Recommended type of controller | | |
|---------------------|-------------------|----------------------|---------------------|--------------------------------|----------|-----|
| | | | | PIR | Set time | Ind |
| Office facilities | ✓ | | | | ✓ | |
| Factories | | ✓ | | ✓ | | |
| Motorway Services | | | ✓ | | | ✓ |
| Airports | | | ✓ | | | ✓ |
| Schools | | ✓ | | ✓ | | |

☒ BioUrinal
☐ ChemiUrinal

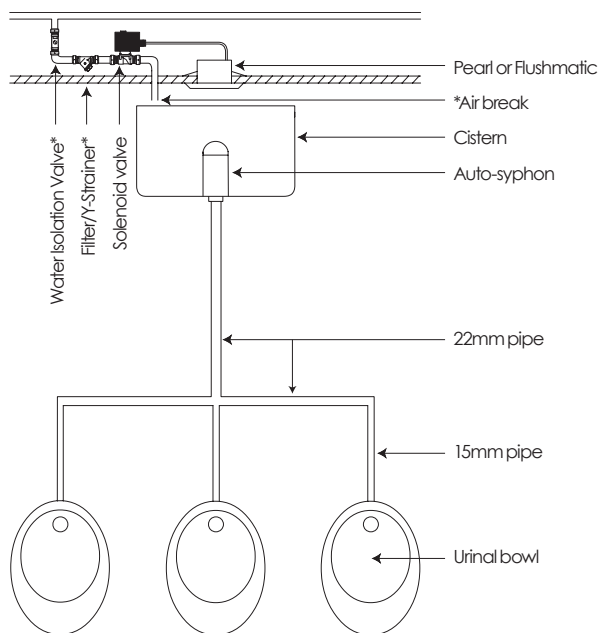
Use the key to identify the ideal urinal sleeve for your application.

Our Urinal Sleeves use a well proven chemical formula designed to reduce uric salt and scale build up in the trap and flush pipes and also kill malodours.

Typical Installations

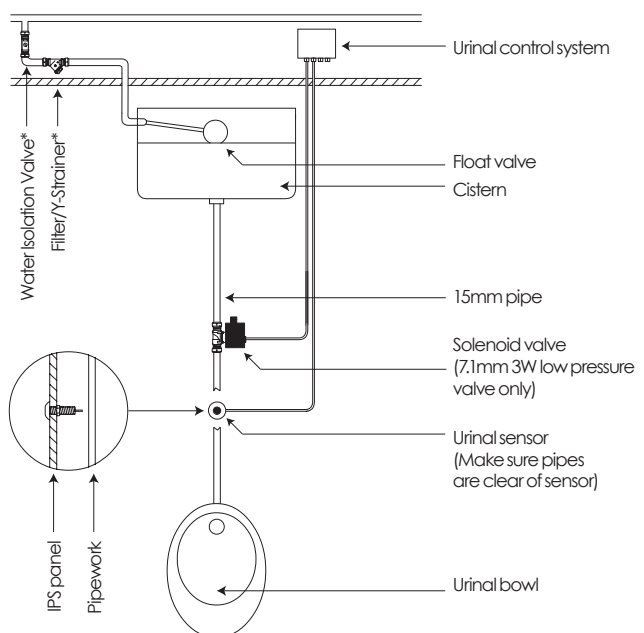
STANDARD SETUP FOR URINAL FLUSHING - USING CISTERN

MULTIPLE BOWL SETUP - PEARL OR FLUSHMATIC



SINGLE BOWL SETUP - URINAL CONTROL SYSTEM

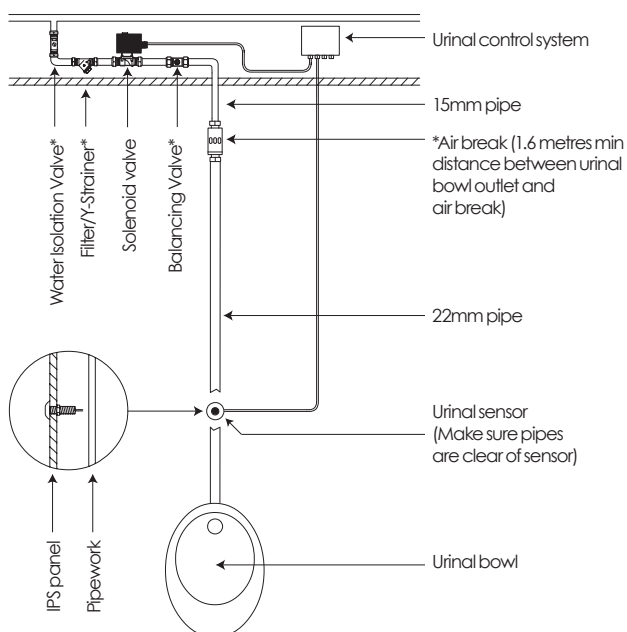
Low pressure setup (requires AC17-008 valves)



DIRECT URINAL FLUSHING SETUP- USING MAINS WATER

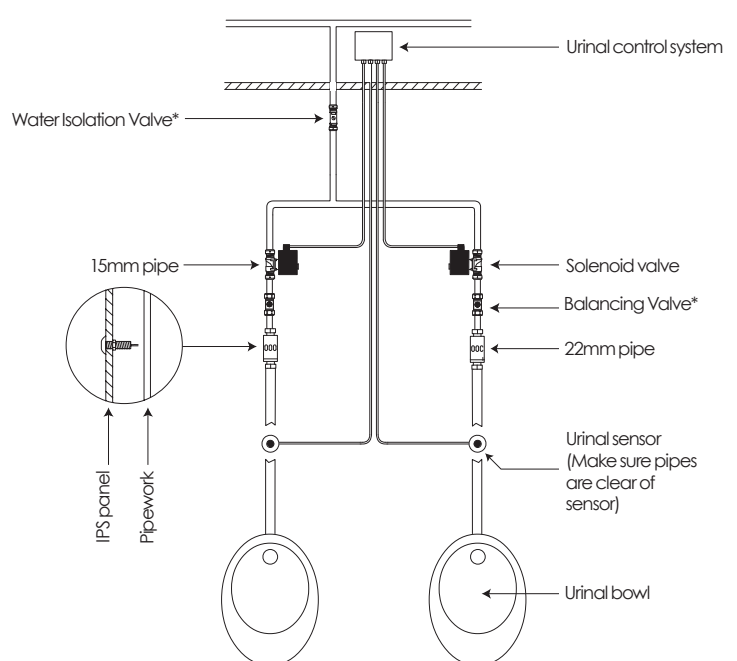
SINGLE BOWL SETUP - URINAL CONTROL SYSTEM

Not all installations suit direct flushing. Please contact our team for guidance.



MULTIPLE BOWL SETUP - URINAL CONTROL SYSTEM (2 STATION KIT)

Not all installations suit direct flushing. Please contact our team for guidance.



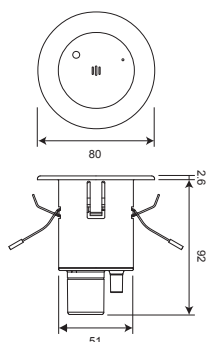
*Not supplied. Can be ordered separately from DVS.

Typical installation diagrams are intended as a guide only. Appropriate regulations should be adhered to.

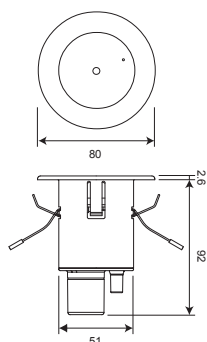
Please note: Illustrations not to scale

Dimensions

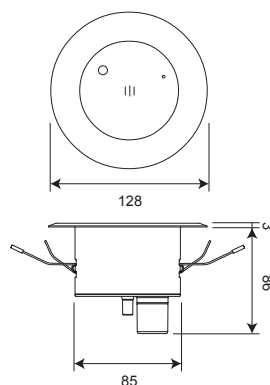
CONTROLLERS AND SENSORS



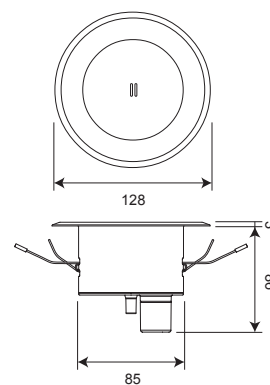
UC01-019 Pearl downlighter



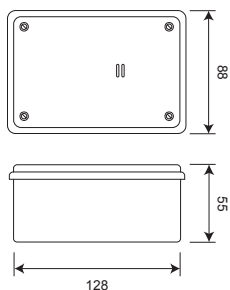
UC01-027 Pearl Solo downlighter



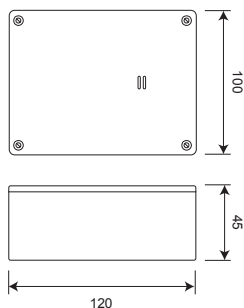
UC01-022 Pearl Retro-Fit downlighter



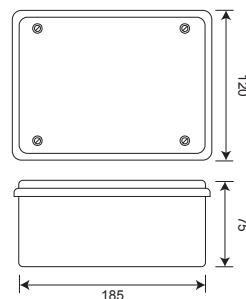
UC01-018 Flushmatic downlighter



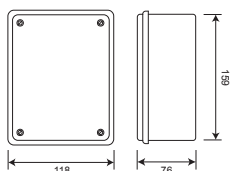
UC01-001 / UC01-007 Flushmatic - Grey (Mains / Battery)



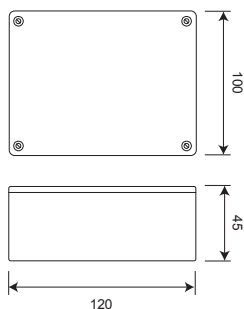
UC01-005 / UC01-009 Flushmatic - White (Mains / Battery)



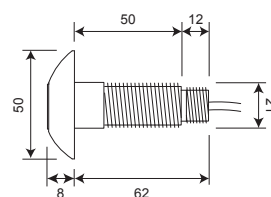
UC07-003 2 Channel Tap Control Box



UC07-001 Urinal control system



UC01-010 Timed Urinal Control System

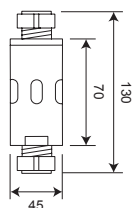


UC07-008 Infrared urinal sensor with 50mmø Bezel
Cable length: 3m
Fixing: 1/2" BSP
Fixing for extension: 3/8" BSP
(22mmø clearance drill hole)

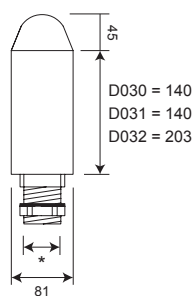
Please note: Illustrations not to scale

Dimensions

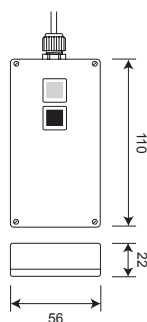
ACCESSORIES



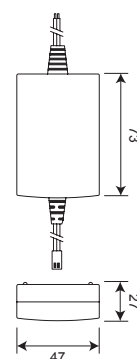
UC00-001
Air break (back flow preventer)
Inlet: 15mm Inlet
Outlet: 22mm Inlet



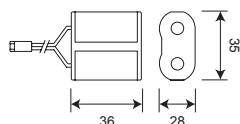
UC00-003 = 1" BSP
UC00-004 = 1 1/4" BSP
UC00-002 = 1 1/2" BSP
Auto-syphon



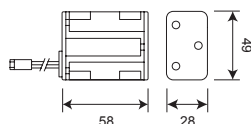
AC17-027
Valve latch
Cable length: Approx.250mm



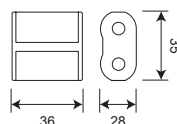
UC00-016
Flushmatic/Pearl PSU - 6v
Mains cable length: Approx.2m
Low voltage cable length: Approx 1m



UC00-006
Flushmatic battery pack - 6v



UC00-005
Flushmatic battery pack for
low indicator model - 9v



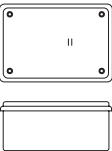

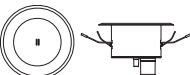
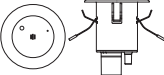
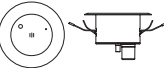
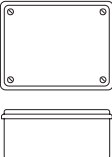
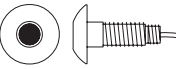

AT00-026
Pearl battery pack - 6v

Please note: Illustrations not to scale



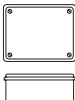
URINAL CONTROLS

Urinal Control Kits

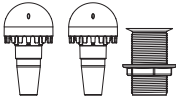
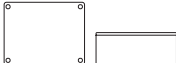

| Profile (Not to scale) | Code | Description |
|---|--|--|
|  | UC01-001 | Flushmatic surface mount kit in Grey - Battery |
| | UC01-005 | Flushmatic surface mount kit in White - Battery |
| | UC01-004 | Flushmatic surface mount kit in S/Steel - Battery |
| | UC01-014 | Flushmatic surface mount kit in Grey - Mains |
| | UC01-017 | Flushmatic surface mount kit in White - Mains |
| | UC01-016 | Flushmatic surface mount kit in S/Steel - Mains |
| | UC00-024 | Replacement fuse for Flushmatic - TR5 (T)1.6A |
|  | UC01-007 | Flushmatic surface mount kit with battery low indicator in Grey - Battery |
| | UC01-009 | Flushmatic surface mount kit with battery low indicator in White - Battery |
| | UC01-008 | Flushmatic surface mount kit with battery low indicator in S/Steel - Battery |
| | UC00-024 | Replacement fuse for Flushmatic - TR5 (T)1.6A |
|  | UC01-018 | Flushmatic downlighter kit for suspended ceilings in White - Battery |
| | UC01-028 | Flushmatic downlighter kit with battery low indicator in White - Battery |
| | UC01-024 | Flushmatic downlighter kit for suspended ceilings in White - Mains |
| | UC00-024 | Replacement fuse for Flushmatic - TR5 (T)1.6A |
|  | UC01-019 | Pearl downlighter kit for suspended ceilings in White - Battery |
| | UC01-025 | Pearl downlighter kit for suspended ceilings in White - Mains |
| | UC01-027 | Pearl Solo downlighter kit for suspended ceilings in White - Mains |
| | UC00-023 | Replacement fuse for Pearl - TR5 (T)1.25A |
|  | UC01-022 | Pearl Retro-fit downlighter kit for suspended ceilings in White - Battery |
| | UC01-026 | Pearl Retro-fit downlighter kit for suspended ceilings in White - Mains |
| | UC00-023 | Replacement fuse for Pearl - TR5 (T)1.25A |
| | <p>Δ Notes: The Retro-fit canister is the same size as the Flushmatic downlighter so will fit into any existing Flushmatic holes in the event of an upgrade.</p> | |
|  | UC07-010 | Urinal control system - 1 station kit - Infrared sensor with 50mmø bezel |
| | UC07-011 | Urinal control system - 2 station kit - Infrared sensors with 50mmø bezels |
| | UC07-001 | Urinal control system for 1 or 2 urinals (control box only) |
| | AC17-009 | Plastic valve (12v DC) with 3m cable and spade connectors |
| | PP00-100 | Urinal control system fuse - Primary - 20mm Glass 240V (T)100mA |
| | PP00-101 | Urinal control system fuse - Secondary - TR5 (F)500mA |
| | <p>Δ Notes: Kits include control box, power supply, sensor, 50mmø bezel and solenoid valve with 3m cable and spade connectors. Standard infrared sensor bezel is brushed. Requires minimum pressure of 0.5 BAR. Must be used with 3W 12V DC NC solenoids.</p> | |
|  | UC00-027 | Infrared urinal sensor (price excludes bezel) - c/w 3m cable |
| | UC00-028 | 50mmø chrome bezel for urinal control system sensor |
| | UC00-029 | 50mmø stainless steel bezel for urinal control system sensor (standard) |
|  | AC02-056 | Sensor thread extension for 100mm wall thickness |
| | AC02-057 | Sensor thread extension for 150mm wall thickness |
| | AC02-058 | Sensor thread extension for 250mm wall thickness |

URINAL CONTROLS

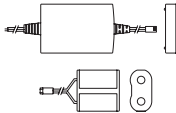




Battery Operated Individual Controller (uses 6v latching valves)

| Profile (Not to scale) | Code | Description |
|---|-----------------|--|
|  | UC07-003 | 2 Channel Urinal Control Box |
| | AC17-006 | 6v DC ASCO Solenoid valve 12.7mm orifice - 0.5-10 BAR - 15mm |
| | AC17-005 | 6v DC ASCO Solenoid valve 6.7mm orifice - 0-0.7 BAR - 15mm |
| | | Notes: Sensors as shown on previous page |

Urinal Sleeves and Cleaners

| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | UC00-007 | BioUrinal Sleeve installation kit - Biological - 1 1/4" BSP |
| | UC00-008 | BioUrinal Sleeve installation kit - Biological - 1 1/2" BSP |
| | UC00-017 | BioUrinal Sleeve refill - Biological |
| | UC00-009 | ChemiUrinal Sleeve installation kit - Chemical - 1 1/4" BSP |
|  | UC00-010 | ChemiUrinal Sleeve installation kit - Chemical - 1 1/2" BSP |
| | UC00-013 | ChemiUrinal Sleeve refill - Chemical |
| | UC01-010 | Timed urinal control system (Includes solenoid valve) - Battery |
| | UC01-011 | Timed urinal control system (Includes solenoid valve) - Mains |
|  | | Notes: Only biological cleaners should be used with BioUrinal sleeves as conventional cleaners kill the enzymes. |

Accessories

| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | UC00-006 | Battery pack for Flushmatic urinal controls (with tails) - 6v |
| | AT00-026 | Battery pack for Pearl and overseas Flushmatic urinal controls (without tails) - 6v |
| | UC00-016 | Power supply for Pearl and Flushmatic urinal controls - 6v |
|  | UC00-021 | Flushmatic printed circuit board |
|  | AC17-027 | Valve latch Notes: Enables manual operation of solenoid valve without requiring urinal control. Useful for testing or commissioning purposes. |
|  | UC00-001 | Air break (back flow preventer) 15mm/22mm - Prevents backflow to water supply |
|  | UC00-003 | Auto-Syphon for urinal cisterns - 5 1/2" x 1" BSP |
| | UC00-004 | Auto-Syphon for urinal cisterns - 5 1/2" x 1 1/4" BSP |
| | UC00-002 | Auto-Syphon for urinal cisterns - 8" x 1 1/2" BSP |



<< Flushmatic downlighter

NO-TOUCH TAPS

WRAS
APPROVED
PRODUCT



Combining the benefits of no-touch technology with water savings and robust reliable performance, no-touch automatic taps are an ideal choice for washrooms across a wide variety of applications, offering benefits to commercial and public sector environments.



No-touch Taps offer an average 65%
water saving ...

MANUFACTURED

IN THE UK

No-touch automatic taps and accessories from Dart Valley Systems incorporate state-of-the-art design and technology and offer hygienic water dispensing solutions to all market sectors - including hotels, supermarkets, laboratories, hospitals, schools, universities, airports, motorway services and food factories.

Our extensive product range is suitable for use by the elderly or disabled and the superior heavy duty construction offers resistance to vandalism and misuse. Easy to install, with options for mains or battery operation, DVS no-touch products allow you to control water efficiently, conserve energy and reduce costs without sacrificing performance and reliability.

WHAT ARE THE BENEFITS OF AUTOMATIC TAPS?

Fully Programmable

- ▶ Adjustable Run-On time
- ▶ Adjustable Range and Trigger level
- ▶ Adjustable Anti-Vandal Lockout Time
- ▶ Automatic Purge
- ▶ Adjustable Purge Run Times
- ▶ Commissioning Flush

Hygiene

No-touch taps are the most hygienic option available for hand washing. This is a very important aspect for everybody, but of increased importance where people are handling food, or where cross contamination needs to be avoided.

Reliability

DVS no-touch taps have been extensively developed and tested to achieve the current high levels of reliability. James Paget Hospital said "We first started trialling Dart Valley Systems' automatic taps over two years ago they have been totally reliable and are good value for money. Whilst the main consideration is hygiene to avoid cross contamination, automatic taps also make significant savings on water".

Water Savings

Electronic taps use the "optimum" amount of water. DVS normally fit a 5 litre flow reducing aerator (ECA approved) on the spout to control the flow of water and the taps only run when the hands are placed under the spout, limiting the water use to the precise time required and preventing taps being left running.

Features Include:

- ▶ Programmable handset – see pg 25
- ▶ Hygienic - Helps avoid cross infection
- ▶ Easy to use - Ideal for disabled or elderly
- ▶ Battery or mains powered
- ▶ Easy to install & maintain
- ▶ Connection options – PEX, copper, stainless steel

HOW THEY WORK

Intelligent electronics

All DVS no-touch taps include highly intelligent electronics, giving ultimate flexibility over sensor ranges and run times. Taps can be pre-set prior to delivery or adjusted on-site using a hand held controller. All taps feature a chlorination option for new installations or where flushing is required and a built in purge facility, ideal for areas where water condition is critical. A number of helpful reporting features can also be accessed via the hand held controller, including the number of tap operations and purges which have occurred.

Infra red detection

All electronics are housed within the body of the tap. A separate solenoid valve controls the flow of water and is connected to the tap using secure IP65 rated connection cables. The power supply or battery pack are also connected in the same way. When a user puts their hands under the tap the infra red detector activates the solenoid valve, causing it to open. The valve remains open while the user's hands are under the tap allowing them to wash their hands thoroughly. Once the user removes their hands the sensor activates the solenoid valve to close and the water flow is stopped.

All DVS taps have an anti-vandal mode ensuring that if someone deliberately blocks the sensor, the tap will only run for one minute. The sensor will then lock off until the sensor has been cleared and the tap then resets, preventing water wastage and the risk of overflow.



AT01-001 
Classic Tap

DVS no-touch taps have been extensively developed and tested to achieve high levels of reliability and consistent performance, combined with attractive design options.

NO-TOUCH TAPS



AT01-001 <<
Classic - Chrome

Classic

Simple and robust, this traditionally designed tap is manufactured from chrome plated heavy brass.



AT01-011 <<
Classic Swan - Chrome

Classic Swan

The elegant Classic Swan no-touch tap is manufactured from chrome plated heavy brass.

⚠ **Please Note:** The operation of the Classic tap can be effected by reflective jackets, in which case, if these are used, one of the Aquarius range of taps may be more suitable. If in doubt please discuss with one of our technical staff.



AT02-001 <<
WM Straight - Brushed

Aquarius WM Straight

With its modern and simple design, the Aquarius wall mount tap ensures the ultimate in hygiene for the most discerning of clients.

The Aquarius wall mount tap is manufactured from stainless steel, with a solid 38mm stainless steel ingot for the head assembly. This tap is available in three standard lengths; 150mm, 200mm and 250mm. Available in brushed or polished finish.



AT03-061 ⚡
Aquarius Pillar - Chrome



AT03-051 ⚡
Aquarius Pillar SV - Chrome

Aquarius Pillar and Pillar SV

Incorporating a modern long-reach design, the Aquarius Pillar is a robust and high quality tap that is perfect for raised sinks or glass bowls, as well as providing superior hygiene control.

The Pillar SV tap is a shorter version of the Aquarius Pillar. Its shorter body makes it ideal for recessed sinks whilst still retaining the main attractions of the original Aquarius Pillar.

Available in polished chrome finish.

Aquarius High Neck

With its extra high body and long reach design the Aquarius High Neck is perfect for raised sinks or glass bowls. Its simple but unique design also makes it exceptionally easy to clean.

The Aquarius High Neck is manufactured from stainless steel, with a solid 38mm stainless steel ingot for the head assembly. Available in brushed or polished finish.



AT03-041 ⚡
High Neck - Brushed

Aquarius High Neck SV

This tap is a shorter version of the Aquarius High Neck tap. Its shorter body makes it ideal for recessed sinks whilst still retaining the main attractions of the original Aquarius High Neck. Available in brushed or polished finish.



AT03-031 ⚡
High Neck SV - Brushed



AT03-001 ⚡
A32 Brushed



AT03-011 ⚡
A45 Brushed

Aquarius A32 and A45

Incorporating a modern and simple design, the A32 and A45 taps ensure the ultimate in hygiene. Perfect for all applications where hygiene is paramount, the robust design and build quality also makes them ideal for heavy industrial applications.

The A32 and A45 are manufactured from stainless steel, with a solid 38mm stainless steel ingot for the head assembly. Available in brushed or polished finish.

Tap Programmer

The hand held tap programmer is capable of adjusting the run, range and purge times on all DVS automatic taps. It can also be set to read the tap, and determine the amount of purge and tap operations.

AT00-041 >>
Hand Held Control for
Programmable Tap End Board



AT03-021 <<
A45 DOC.M - Brushed

Aquarius A45 DOC.M

This tap has been designed to suit DOC.M and disabled sinks and is also ideal for most extra small basins. Available in brushed or polished finish.

| | Two Twist Taps | Push Taps | Automatic Taps |
|----------------------------|----------------|------------|----------------|
| Consumption (per handwash) | 2 litres | 1.2 litres | 0.8 litres |
| Consumption (per day) | 200 litres | 120 litres | 80 litres |
| Consumption (per year) | 50 m³ | 30 m³ | 20 m³ |
| Water Saving (per day) | - | 80 litres | 120 litres |
| Water Saving (per year) | - | 20 m³ | 30 m³ |

Typical Saving with Automatic Taps = 30 m³ (per year)

Major clients include:

- ▶ NHS Estates
- ▶ Tate Modern
- ▶ Roadchef
- ▶ BAA Airports
- ▶ Marks & Spencers
- ▶ Tesco

NEW AQUARITHERM™

Designed with healthcare environments in mind, the AquariTherm™ meets the needs of challenging infection control environments alongside those of FM teams.

Features include:

- ▶ No-touch or manual operation models available
- ▶ Ergonomic, easy to clean surfaces
- ▶ Quick and easy to service
- ▶ No hot surface area
- ▶ Simple filter exchange and cleaning
- ▶ Adjustable sensing range
- ▶ Automatic purge facility



AT04-001 ⚡
No-touch AquariTherm™



MT04-001 ⚡
Manual AquariTherm™



AT04-001 ⚡
No-touch AquariTherm™ with Twyford Bushboard Module

DVS have developed a number of controllers below to give tap spouts electronic, no-touch and tactile control, purge control and battery backup.

CONTROL SYSTEMS



AC02-040 <<



AC02-041 <<
Anti-Vandal Sensors



AT07-001 <<
Tap Control System



AT00-032 <<
Automatic tap purge controller

Tap Control System

The tap control system can be used to control mixed water for 1 or 2 taps, or to control both hot and cold on a single tap using 2 sensors. The control system can be used with wave-on or tactile sensors. The tap control system also features built-in purge control option to avoid stagnation.

When a user waves their hand past the sensor (or pushes the tactile switch) the control system activates the solenoid valve, the valve will then run for a pre-set time before automatically closing the valve and stopping the tap.

Various settings can be customised quickly and easily from within the control box if necessary.

Features include:

- ▶ Saves water, switches off after pre-set time
- ▶ No-touch - Helps avoid cross infection
- ▶ High performance & reliability
- ▶ Adjustable run-time
- ▶ Settings allow option to 'wave-off'

Purge Controller

The automatic tap purge controller reduces the risk of Legionella by purging the taps if they have not been operated for a predefined time. Purge run times are adjustable and can be set between 5 seconds and 5 minutes. A periodic purge can be switched on or off.



AT00-031 <<
Automatic tap battery backup unit



AT00-024 <<
B Lead - Automatic tap battery pack

Battery Backup Unit

The automatic tap battery backup unit will automatically switch from mains supply to battery in the event of a power failure (comes complete with AT00-024 battery pack). When mains power is restored the unit will switch back to mains supply.

TAP SPOUTS

Tap Spouts (No Electronics)

Using DVS tap spouts with a separate control source, including the Tap Control System (above) provides a range of tap spout solutions for a wide variety of applications.

Discuss your application with DVS' technical sales team to ensure you obtain the optimum controls solution. Various settings can be customised quickly and easily from within the control box such as run-times and tap purges.

Features include:

- ▶ Stainless steel
- ▶ High security options available
- ▶ Can be used with or without electronic controls



AT07-041 <<
High security tap spout



AT07-040 <<
High security tap spout



AT07-047 <<
Aquarius WM spout 150mm



AT07-046 <<
Wall mounted fixed spout



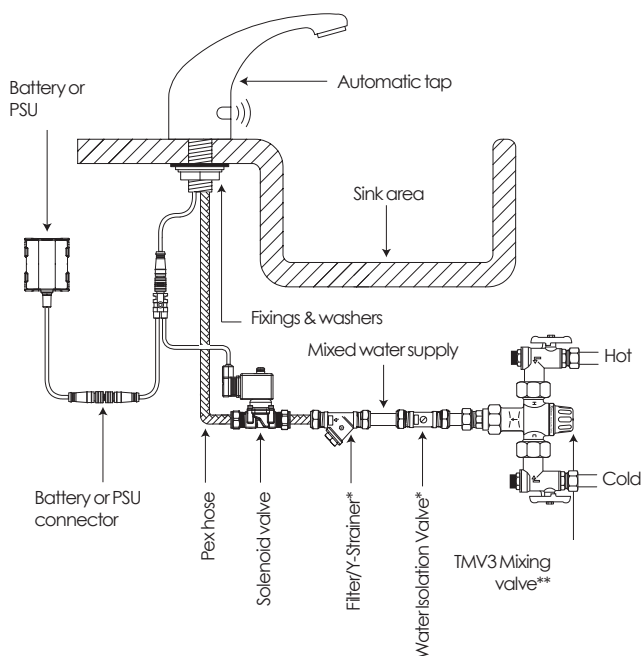
AT07-056 <<
High security deck mounted spout



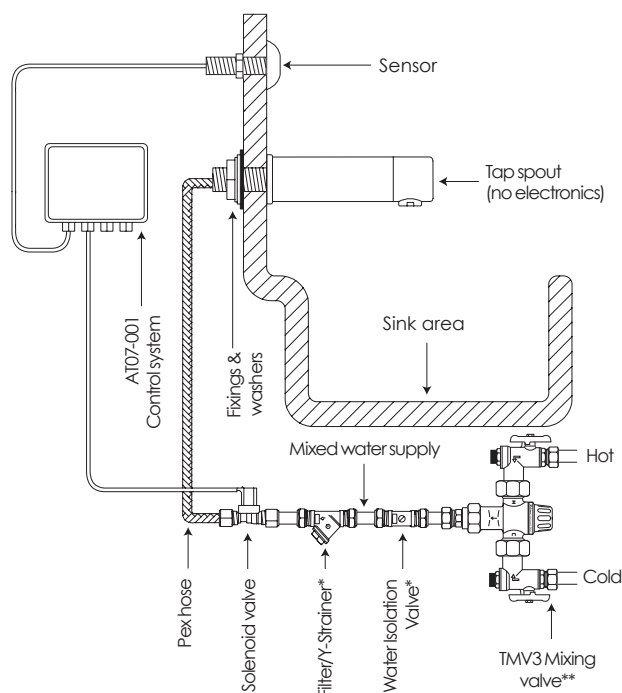
AT07-055 <<
High security basin mounted tap nosse

Dimensions

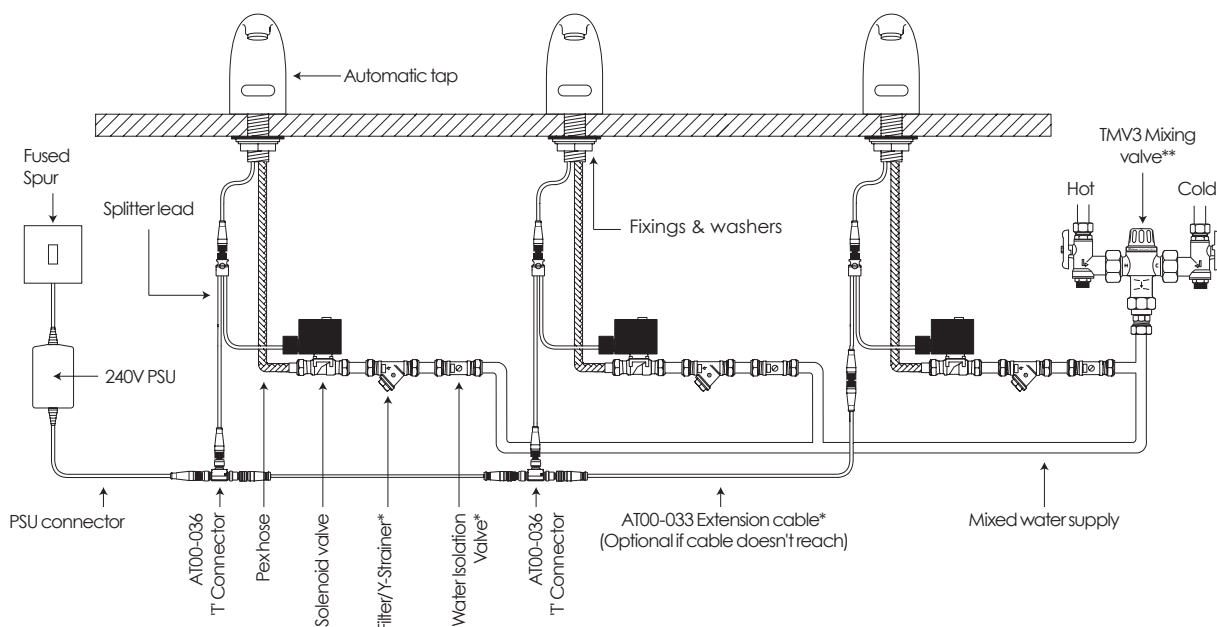
STANDARD SETUP AUTOMATIC TAPS



STANDARD SETUP TAP CONTROL SYSTEM



MULTIPLE INSTALLATIONS - AUTOMATIC TAPS



*Not supplied. Can be ordered separately from DVS.

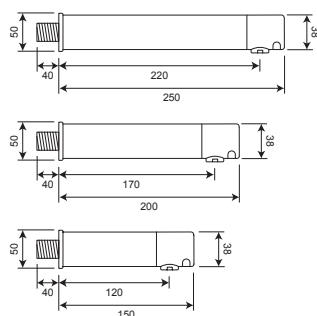
**Not supplied. Required for warm water output and to comply with new building regulations. Can be ordered separately from DVS. Typical installation diagrams are intended as a guide only. Appropriate regulations should be adhered to.

Pressure Notes: All automatic taps come with a 12.7mm solenoid valve as standard which requires 0.5 BAR to operate. Lower pressure valves can be provided if necessary, please specify on order or contact DVS for advice.

Please note: Illustrations not to scale

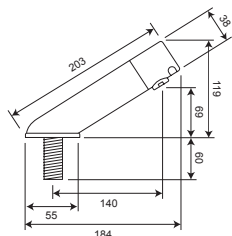
Dimensions

NO-TOUCH TAPS AND TAP SPOUTS



Aquarius WM Straight tap

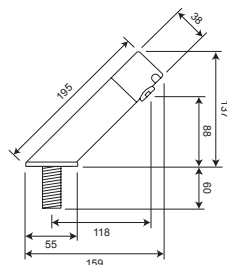
Fixing: 3/4" BSP
(28mmØ clearance drill hole)



AT03-001

Aquarius A32 tap

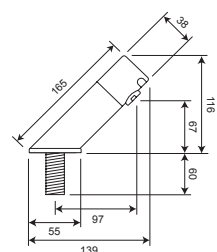
Fixing: 3/4" BSP
(28mmØ clearance drill hole)



AT03-011

Aquarius A45 tap

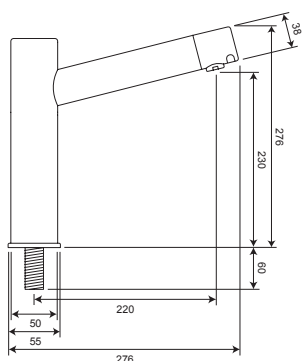
Fixing: 3/4" BSP
(28mmØ clearance drill hole)



AT03-021

Aquarius A45 DOC.M tap

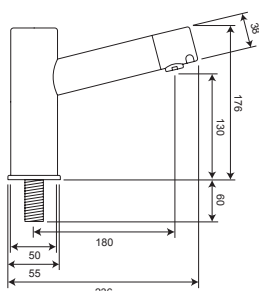
Fixing: 3/4" BSP
(28mmØ clearance drill hole)



AT03-061

Aquarius Pillar tap

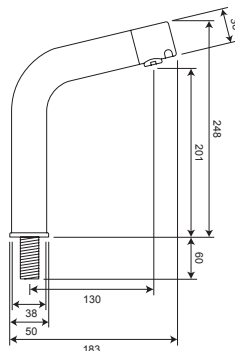
Fixing: 3/4" BSP
(28mmØ clearance drill hole)



AT03-051

Aquarius Pillar SV tap

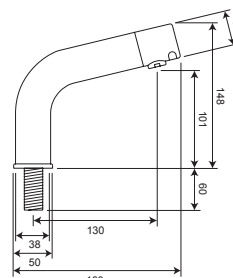
Fixing: 3/4" BSP
(28mmØ clearance drill hole)



AT03-041

Aquarius High Neck tap

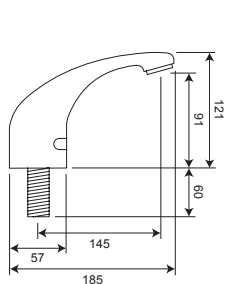
Fixing: 3/4" BSP
(28mmØ clearance drill hole)



AT03-031

Aquarius High Neck SV tap

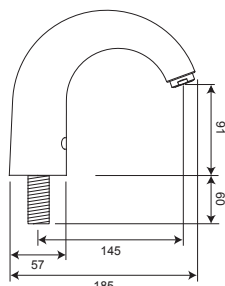
Fixing: 3/4" BSP
(28mmØ clearance drill hole)



AT01-001

Classic tap

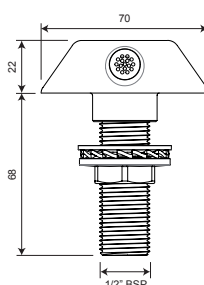
Fixing: 3/4" BSP
(28mmØ clearance drill hole)



AT01-011

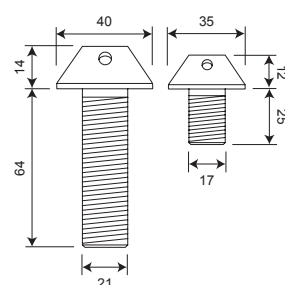
Classic swan tap

Fixing: 3/4" BSP
(28mmØ clearance drill hole)



AT07-056

High security deck mounted spout



AT07-055 and AT07-054

High security stainless steel tap nozzles.
Basin mounted (left) or stainless steel
mounted (right).

AT07-055 Fixing: 1/2" BSP

AT07-054 Fixing: 3/8" BSP

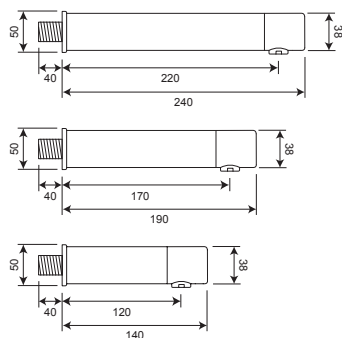
Extension fixing: 1/2" BSP

△ **Notes:** Please see price guide for tap kit codes.

For more information regarding anti-rotation pins, please contact our sales team.

Please note: Illustrations not to scale

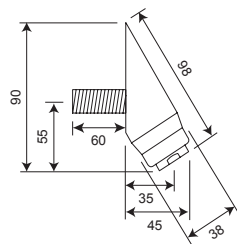
Dimensions



AT07-047

Aquarius WM tap spout

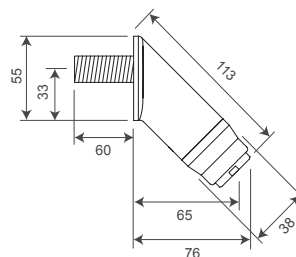
Fixing: 3/4" BSP
(28mmØ clearance drill hole)



AT07-041

30° High security WM tap spout
- Stainless Steel

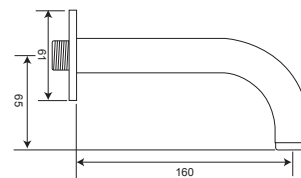
Fixing: 1/2" BSP
(22mmØ clearance drill hole)



AT07-040

45° High security WM bath spout
- Stainless Steel

Fixing: 3/4" BSP
(28mmØ clearance drill hole)

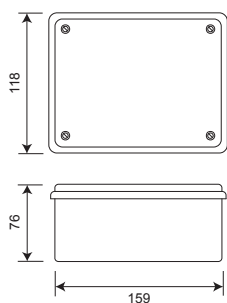


AT07-046

Wall mounted fixed spout
- Chrome

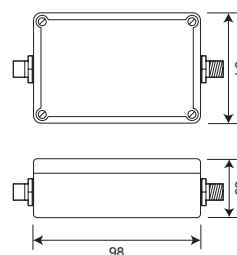
Fixing: 3/4" BSP
(28mmØ clearance drill hole)

CONTROL SYSTEMS AND SENSORS



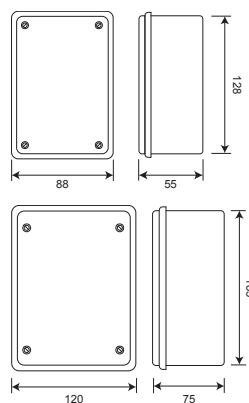
AT07-001

Tap control system - Mains



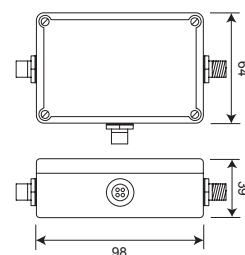
AT00-032

Purge controller



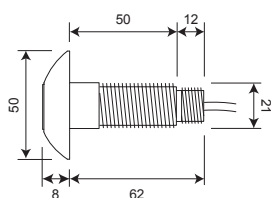
AT07-002 (Top) AT07-003 (Bottom)

2 Channel tap control box - Battery



AT00-031

Battery backup unit



AC02-040 BLUE

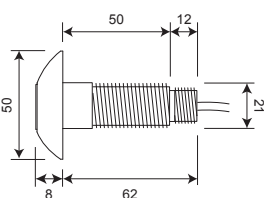
AC02-041 RED

Anti-vandal wave-on sensor with
50mmØ bezel

Cable length: 3m

Fixing: 1/2" BSP

Fixing for extension: 3/8" BSP
(22mmØ clearance drill hole)



AC02-046 BLUE

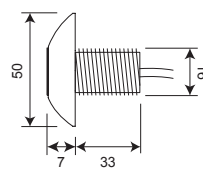
AC02-047 RED

Tactile switch with 50mmØ bezel

Cable length: 3m

Fixing: 1/2" BSP

Fixing for extension: 3/8" BSP
(22mmØ clearance drill hole)



AC02-001 Sensor Only

Wave-on sensors 50mmØ bezels

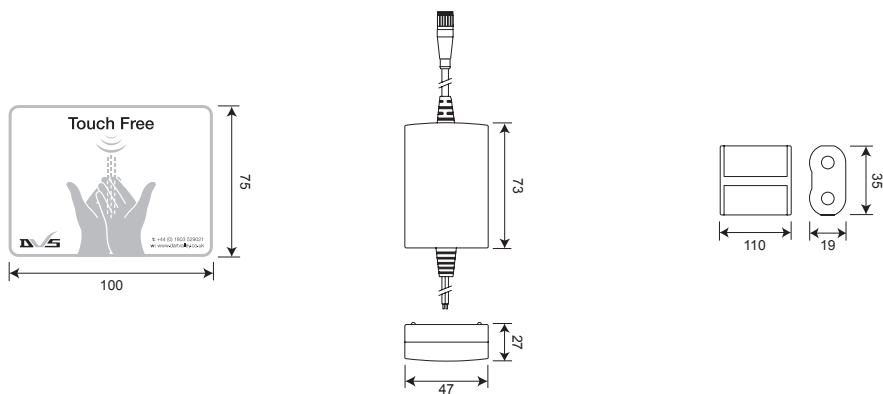
Cable length: 3m

Fixing: 3/8" BSP
(17mmØ clearance drill hole)

Please note: Illustrations not to scale

Dimensions

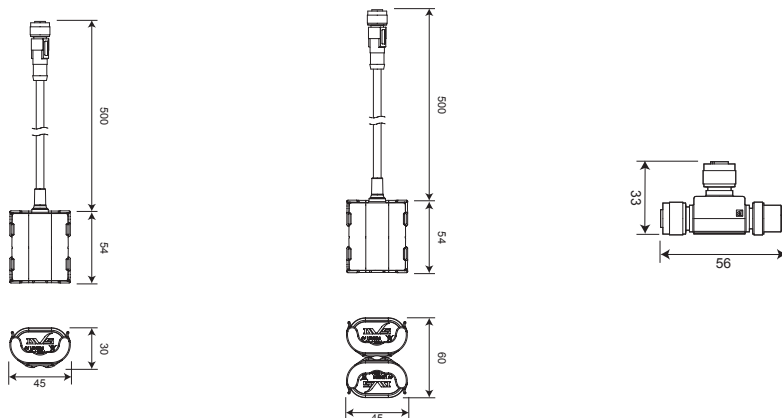
ACCESSORIES



AT00-023 Touch free tap self-adhesive polythene label (included in all automatic tap kits).

AT00-029 Automatic tap single PSU - 6v
Mains cable length: 1m
Low voltage cable length: 1.5m

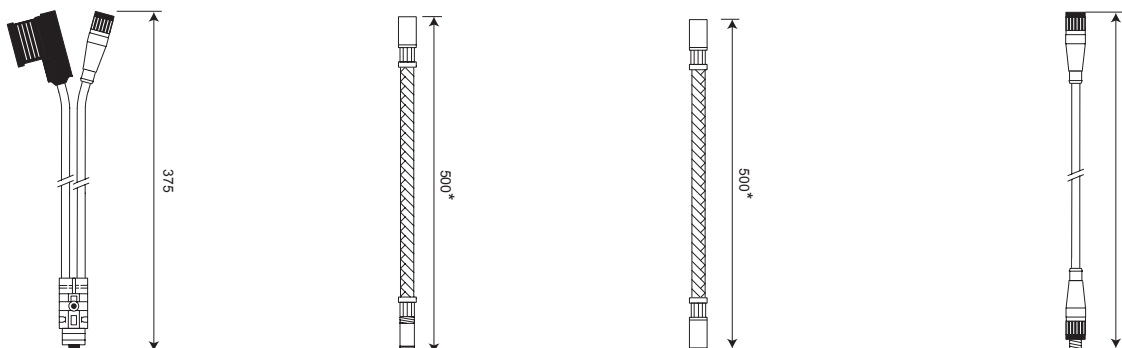
AT00-026 Replacement battery for B lead - 6v



AT00-024 B lead with battery and box - 6v

AT00-025 B lead with double battery and box - 6v

AT00-036 T Connector



AT00-037 A lead - Y splitter

AT00-016 Pex hose (*standard length)

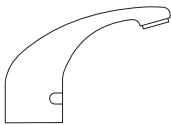
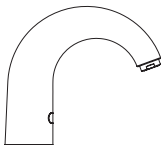
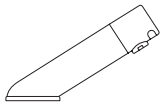
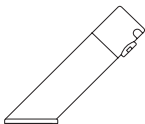
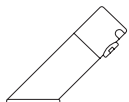
AT00-019 Pex hose

Extension leads (*lengths range from 1M to 3M)

Please note: Illustrations not to scale

NO-TOUCH TAPS

Automatic Taps (Spouts only)

| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | AT01-001 | Classic tap spout only in chrome pex tails |
| | AT01-002 | Classic tap spout only in chrome copper tails |
| | AT01-003 | Classic tap spout only in chrome stainless tails |
| | PP00-007 | M6 x 12 S/steel Grub Screws Anti Rotation for D/M Tap bases Notes: Deck mounted. Standard finish is chrome. |
|  | AT01-011 | Classic Swan tap spout only in chrome pex tails |
| | AT01-012 | Classic Swan tap spout only in chrome copper tails |
| | AT01-013 | Classic Swan tap spout only in chrome stainless tails |
| | PP00-007 | M6 x 12 S/steel Grub Screws Anti Rotation for D/M Tap bases Notes: Deck mounted. Standard finish is chrome. |
|  | AT03-001 | Aquarius DM A32 tap spout only in S/St pex tails |
| | AT03-002 | Aquarius DM A32 tap spout only in S/St copper tails |
| | AT03-003 | Aquarius DM A32 tap spout only in polish S/St |
| | PP00-007 | M6 x 12 S/steel Grub Screws Anti Rotation for D/M Tap bases Notes: Deck mounted. Standard finish is brushed stainless steel. Polished chrome finish also available. |
|  | AT03-011 | Aquarius DM A45 tap spout only in S/St pex tails |
| | AT03-012 | Aquarius DM A45 tap spout only in S/St copper tails |
| | AT03-013 | Aquarius DM A45 tap spout only in polish S/St |
| | PP00-007 | M6 x 12 S/steel Grub Screws Anti Rotation for D/M Tap bases Notes: Deck mounted. Standard finish is brushed stainless steel. Polished chrome finish also available. |
|  | AT03-021 | Aquarius DM A45 Doc M tap spout only in S/St pex tails |
| | AT03-022 | Aquarius DM A45 Doc M tap spout only in S/St copper tails |
| | AT03-023 | Aquarius DM A45 Doc M tap spout only in polish S/StSpare anti-rotation pins |
| | PP00-007 | M6 x 12 S/steel Grub Screws Anti Rotation for D/M Tap bases Notes: Deck mounted. Standard finish is brushed stainless steel. Polished chrome finish also available. |

Tap Kits (Required for the above taps)

| Code | Description |
|-----------------|--|
| AT00-001 | Single station battery kit standard pressure |
| AT00-002 | Single station mains kit standard pressure |
| AT00-003 | Two station mains kit standard pressure |
| AT00-004 | Three station mains kit standard pressure |
| AT00-005 | Single station battery kit low pressure |
| AT00-006 | Single station mains kit low pressure |
| AT00-007 | Two station mains kit low pressure |
| AT00-008 | Three station mains kit low pressure |

Notes: Tap kits include battery pack or mains PSU, solenoid valves and associated connecting leads. Standard pressure suitable for 1-6 bar. Low pressure suitable for 0-1 bar.



AT03-011 

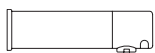
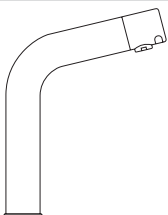
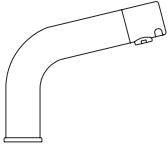
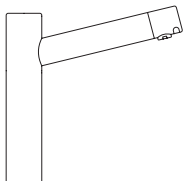
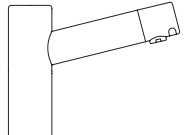
A45 Brushed No-Touch Taps with Twyford Basins

NO-TOUCH TAPS

Finishes

Taps with brushed stainless steel finish are all also available in polished chrome finish.

Automatic Taps

| Profile (Not to scale) | Code | Description |
|--|-----------------|--|
|  | AT02-001 | Aquarius WM straight tap spout only in S/St 150mm pex tails |
| | AT02-002 | Aquarius WM straight tap spout only in S/St 150mm copper tails |
| | AT02-003 | Aquarius WM straight tap spout only in S/St 150mm stainless tails |
| | AT02-004 | Aquarius WM straight tap spout only in S/St 150mm filter pex tails |
| | AT02-005 | Aquarius WM straight tap spout only in polish S/St 150mm pex tails |
| | AT02-011 | Aquarius WM straight tap spout only in S/St 200mm pex tails |
| | AT02-012 | Aquarius WM straight tap spout only in S/St 200mm copper tails |
| | AT02-013 | Aquarius WM straight tap spout only in S/St 200mm stainless tails |
| | AT02-014 | Aquarius WM straight tap spout only in S/St 200mm filter pex tails |
| | AT02-015 | Aquarius WM straight tap spout only in polish S/St 200mm pex tails |
| | AT02-021 | Aquarius WM straight tap spout only in S/St 250mm pex tails |
| | AT02-022 | Aquarius WM straight tap spout only in S/St 250mm copper tails |
| | AT02-023 | Aquarius WM straight tap spout only in S/St 250mm stainless tails |
| | AT02-024 | Aquarius WM straight tap spout only in S/St 250mm filter pex tails |
| | AT02-025 | Aquarius WM straight tap spout only in polish S/St 250mm pex tails |
| △ Notes: Standard finish is brushed stainless steel. Polished chrome finish also available. | | |
|  | AT03-041 | Aquarius DM high neck tap spout only in S/St pex tails |
| | AT03-043 | Aquarius DM high neck tap spout only in polish S/St pex tails |
| △ Notes: Deck mounted. Standard finish is brushed stainless steel. Polished chrome finish also available. | | |
|  | AT03-031 | Aquarius DM Short neck tap spout only in S/St pex tails |
| | AT03-032 | Aquarius DM Short neck tap spout only in S/St copper tails |
| | AT03-033 | Aquarius DM Short neck tap spout only in polish S/St pex tails |
| △ Notes: Deck mounted. Standard finish is brushed stainless steel. Polished chrome finish also available. | | |
|  | AT03-061 | Aquarius DM Tall Pillar tap in Chrome spout only pex tails |
| △ Notes: Deck mounted. Standard finish is chrome. | | |
|  | AT03-051 | Aquarius DM Short Pillar tap in Chrome spout only pex tails |
| △ Notes: Deck mounted. Standard finish is chrome. | | |

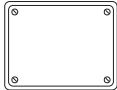


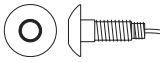




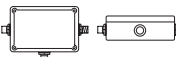
Tap Kits (Required for the above taps)

| Code | Description | Code | Description |
|-----------------|--|-----------------|---|
| AT00-001 | Single station battery kit standard pressure | AT00-005 | Single station battery kit low pressure |
| AT00-002 | Single station mains kit standard pressure | AT00-006 | Single station mains kit low pressure |
| AT00-003 | Two station mains kit standard pressure | AT00-007 | Two station mains kit low pressure |
| AT00-004 | Three station mains kit standard pressure | AT00-008 | Three station mains kit low pressure |

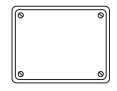

△ Notes: Tap kits include battery pack or mains PSU, solenoid valves and associated connecting leads. Standard pressure suitable for 1-6 bar. Low pressure suitable for 0-1 bar.

NO-TOUCH TAPS

Control Systems

| Profile (Not to scale) | Code | Description |
|--|-----------------|--|
|     | AT07-010 | Tap control system - 1 station kit - Wave-on sensor with 50mmø bezel |
| | AT07-011 | Tap control system - 2 station kit - Wave-on sensors with 50mmø bezels |
| | AT07-012 | Tap control system - 1 station kit - Tactile switch with 50mmø bezel |
| | AT07-013 | Tap control system - 2 station kit - Tactile switches with 50mmø bezels |
| | AT07-015 | Tap control system - Wave-on sensor kit for VR01-002 high security backplate |
| | AT07-014 | Tap control system - Tactile switch kit for VR01-002 high security backplate |
| | AT07-001 | Tap control system for 1 or 2 taps (control box only) |
| | AC17-009 | Plastic valve (12v DC) with 3m cable and spade connectors |
| | PP00-100 | Tap control system fuse - Primary - 20mm Glass 240V (T)100mA |
| | PP00-101 | Tap control system fuse - Secondary - TR5 (F)500mA |
| <p>Notes: Kits include control box, power supply, sensor, 50mmø bezel and solenoid valve with 3m cable and spade connectors. Standard wave-on sensor bezel is chrome. Standard tactile switch bezel is stainless steel. Requires minimum pressure of 0.5 BAR. Must be used with 3W 12V DC NC solenoids.</p> | | |
|    | AC02-001 | (A) Wave-on sensor (price excludes bezel) c/w 3m cable |
| | AC02-008 | Optional Red (Hot) indication washer for behind D102 wave-on sensor bezel |
| | AC02-007 | Optional Blue (Cold) indication washer for behind D102 wave-on sensor bezel |
| | AC02-005 | 50mmø chrome bezel for D102 wave-on sensor |
| | AC02-006 | 50mmø stainless steel bezel for D102 wave-on sensor |
| | AC02-041 | (B) Anti-vandal wave-on sensor with Red (Hot) indication and 50mmø s/st bezel c/w 3m cable |
| | AC02-040 | (B) Anti-vandal wave-on sensor with Blue (Cold) indication and 50mmø s/st bezel c/w 3m cable |
| | AC02-047 | (C) Tactile switch with Red (Hot) indication and 50mmø s/st bezel c/w 3m cable |
| | AC02-046 | (C) Tactile switch with Blue (Cold) indication and 50mmø s/st bezel c/w 3m cable |
| | AC02-002 | Wave-on sensor (price excludes bezel) - c/w 15m cable |
| | AC02-012 | 38mm Chrome wave on sensor pack c/w 15m cable |
| | AC02-043 | Anti-vandal wave-on sensor with Blue (Cold) indication and 50mmø s/st bezel c/w 15m cable |
| | AC02-044 | Anti-vandal wave-on sensor with Red (Hot) indication and 50mmø s/st bezel c/w 15m cable |
| | AC02-049 | Tactile switch with Blue (Cold) indication and 50mmø s/st bezel c/w 15m cable |
| | AC02-050 | Tactile switch with Red (Hot) indication and 50mmø s/st bezel c/w 15m cable |
|  | AC02-057 | Sensor thread extension for 150mm wall thickness |
| | AC02-058 | Sensor thread extension for 250mm wall thickness |
|  | AT00-031 | Battery backup unit Notes: Comes complete with B lead automatic tap battery pack with box and lead |

Battery Operated Tap Controller (uses 6v latching valves)


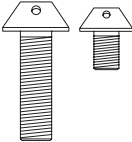
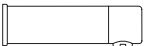
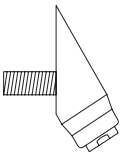
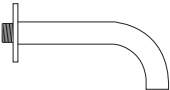
| Profile (Not to scale) | Code | Description |
|--|-----------------|--|
|   | AT07-002 | 2 Channel tap control box only- c/w 6 x AA Batteries |
| | AT07-003 | 2 Channel tap control box - c/w 6 x C Cell Batteries |
| | AC17-004 | 6v DC ASCO valve (H262604BW) 4mm orifice - 0-2 BAR - 15mm |
| | AC17-006 | 6v DC ASCO Solenoid valve 12.7mm orifice - 0.5-10 BAR - 15mm |
| | AC17-005 | 6v DC ASCO Solenoid valve 6.7mm orifice - 0-0.7 BAR - 15mm |
| Notes: Operates with any of the sensors as shown on previous page | | |

NO-TOUCH TAPS


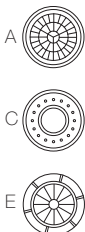

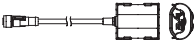


ECA approval

Please see the Water Technology List for ECA approved products.

Tap Spouts



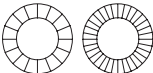
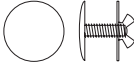

| Profile (Not to scale) | Code | Description |
|---|-----------------|--|
|  | AT07-056 | High security deck mounted spout - Brushed |
| | AT07-057 | High security deck mounted spout - Polished |
|  | AT07-055 | Basin mounted high security stainless steel tap nosse (left) - Fixing: 1/2" BSP |
| | AT07-054 | Stainless steel mounted high security stainless steel tap nosse (right) - Fixing: 3/8" BSP |
|  | AT07-047 | Aquarius WM tap spout with no electronics (150mm) Notes: Wall mounted. Standard finish is brushed stainless steel. |
|  | AT07-041 | High Security WM tap spout - 30° (98mm long from top) |
| | AT07-042 | High Security WM tap spout - All Steel - 30° (80mm long from top) |
| | AT07-040 | High Security WM tap spout - 45° (113mm long from top) Notes: Wall mounted. No Electronics. Substantially reduced ligature risk. Standard finish is brushed stainless steel. |
|  | AT07-046 | Wall mounted fixed spout (minimalistic) Notes: Wall mounted. No electronics. |

Accessories

| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | AT00-023 | Touch free self-adhesive polythene label Notes: Durable, wipe clean surface. High tack. Included in all automatic tap kits. |
|  | AT00-012 | (A) Flow straightener 6LPM |
| | AT00-013 | (A) Standard flow straightener 5LPM |
| | AT00-010 | (A) Flow straightener 3LPM - Blue/green back |
| | AT00-011 | (E) Flow straightener - Unrestricted - Standard plastic |
| | AT00-015 | (C) Spray 4LPM - Pink back |
| | AT00-014 | (C) Spray 3LPM - Purple back Notes: All tap outlets above have M24x1 threads. |
|  | AT00-029 | Single Earthed PSU for Automatic Taps |
|  | AT00-024 | B lead - Automatic tap battery pack with box and lead |
| | AT00-025 | B lead - Automatic tap double battery pack with box and lead for extended life |
| | AT00-026 | Replacement single battery for B lead |
|  | AT00-037 | A lead - Y splitter lead Notes: Connects unit to solenoid valve and power source. |
|  | AT00-036 | C lead - Patch lead - 'T' piece connecting kit for tap stations Notes: For linking power between units. |

NO-TOUCH TAPS

Accessories (continued)

| Profile (Not to scale) | Code | Description |
|---|-----------------|--|
|  | AT00-016 | Pex hose - Standard length 500mm (Suitable for DVS No-Touch Taps) |
| | AT00-018 | Pex hose - Long length 1m (Suitable for DVS No-Touch Taps) |
| | AT00-019 | Pex hose - 15mm x 15mm extension hose |
| | AT00-038 | Conversion kit for flexibles to copper tails - wall mounted only. c/w 350mm length. Exposed length of copper tail will vary according to tap model |
| | AT00-124 | Conversion kit for flexibles to stainless steel tails - wall mounted only. c/w 350mm length. Exposed length of tail will vary according to tap model |
|  | AT00-033 | Cable extension (1 metre) |
| | AT00-034 | Cable extension (2 metre) |
| | AT00-035 | Cable extension (3 metre) |
|  | PP00-001 | Anti-rotation locking washers for taps Notes: When tightened, these washers lock to the under side of the worktop to prevent twisting of the tap. |
|  | AT00-028 | Chrome blanking plate (plastic) |
|  | AT00-041 | Hand Held Control for Programmable Tap End Board (for Aquarius tap range only) |



PUSH TAPS

WRAS
APPROVED
PRODUCT

A popular product for high traffic washrooms, push taps offer great value for money combined with robust performance. The high quality DVS push tap also offers high levels of water savings, ensuring a short payback period.



Push taps offer an average 50%
water saving ...

Push taps offer a good level of hygiene and water saving features, provide designs that are tamper-proof and vandal resistant and are easy to install and maintain.

DVS offer a variety of self-closing, manually operated taps that are ideal for all industrial and public washroom applications. The range covers many requirements, offering taps for hand, elbow or knee operation.

Features include:

- ▶ Up to 50% savings on water costs
- ▶ Easy to use
- ▶ Adjustable flow rates
- ▶ No-touch self-closing operation
- ▶ Easy to install and maintain
- ▶ High pressure and low pressure taps available
- ▶ Various options for either hand, elbow or knee operation
- ▶ In-built filter
- ▶ Reliable and good value

HOW THEY WORK

The average screw head tap will deliver approx 12 ltrs per minute when turned partially on. On average a screw head tap is left on for 15 seconds. Assuming each person on average washes their hands 4 times per day, this equates to 12 ltrs per day. On average the self-closing taps will reduce this to 6 ltrs per day.

With a DVS selectable flow rate push tap installed, the flow rate can be adjusted to run from 4 ltrs per minute and the time on can be reduced to between 3 and 11 seconds. The biggest benefit however is that the push tap cannot be left running, as it self closes. This is particularly important in public toilets.

ASSUMPTION FOR WATER SAVING PROJECTION

400 personnel on site washing their hands 4 times per day would be using 4,800 ltrs of water per day. Depending on the flow rate and run time set, push taps could reduce this to 2,400 ltrs of water per day.

Saving 2,400 ltrs per day x 260 working days = 624,000 ltrs of water per annum.

This would also result in a substantial reduction in energy costs as less hot water would be used.

Hand Operated



MT00-001 
Push tap



MT00-008 
Low pressure push tap



MT00-003 
WM Push tap



MT00-005 
WM Extended push tap

Elbow Operated



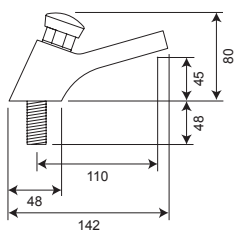
MT00-007 
Lever operated clinic tap

| | Two Twist Taps | Push Taps |
|--|----------------|------------|
| Consumption (per handwash) | 2 litres | 1.2 litres |
| Consumption (per day) | 200 litres | 120 litres |
| Consumption (per year) | 50 m³ | 30 m³ |
| Water Saving (per day) | - | 80 litres |
| Water Saving (per year) | - | 20 m³ |
| Typical Saving with Push Taps = 20 m³ (per year) | | |

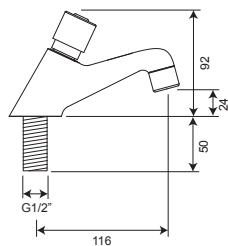
The DVS range of selectable flow rate push taps have many advantages over and above the normal push tap.

Dimensions

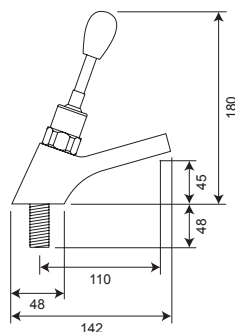
ACCESSORIES

**MT00-001**

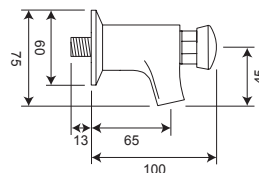
Push tap

Fixing: 1/2" BSP
(22mmØ clearance drill hole)**MT00-008**

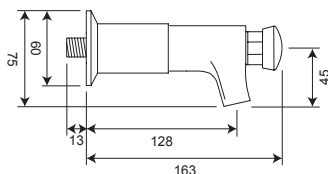
Low pressure push tap

Fixing: 1/2" BSP
(22mmØ clearance drill hole)**MT00-007**

Lever clinic tap

Fixing: 1/2" BSP
(22mmØ clearance drill hole)**MT00-003**

WM Push tap

Fixing: 1/2" BSP
(22mmØ clearance drill hole)**MT00-005**

WM Extended push tap

Fixing: 1/2" BSP
(22mmØ clearance drill hole)

Major clients include:

- ▶ Sainsbury's
- ▶ Tesco
- ▶ Perth & Kinross Council
- ▶ St Andrews Health Care
- ▶ HMP Dartmoor
- ▶ HMP Stoke Heath

Please note: Illustrations not to scale



PUSH TAPS




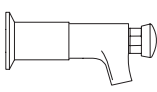

Replacement Cartridges

See push tap accessories below for replacement cartridges.


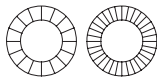

Fixing Nuts and Washers

High quality brass fixing nuts.

Push Taps

| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | MT00-002 | Push tap - Hot |
| | MT00-001 | Push tap - Cold △ Notes: Deck mounted. Hand operated. Chrome finish. |
|  | MT00-008 | Low pressure push tap △ Notes: Deck mounted. Hand operated. Chrome finish. |
| | MT00-007 | Lever clinic tap - Angled △ Notes: Deck mounted. Elbow operated. Chrome finish. |
|  | MT00-004 | WM push tap - Hot |
| | MT00-003 | WM push tap - Cold △ Notes: Wall mounted. Chrome finish. Hand operated. Standard tap needs to be fitted to a 1/2" BSP female connection. |
|  | MT00-006 | Extended WM push tap - Hot |
| | MT00-005 | Extended WM push tap - Cold △ Notes: Wall mounted. Chrome finish. Hand operated. Standard tap needs to be fitted to a 1/2" BSP female connection. |
|  | AC02-066 | Thread extension for WM push taps - 100mm wall thickness |
| | AC02-067 | Thread extension for WM push taps - 150mm wall thickness |
| | AC02-068 | Thread extension for WM push taps - 250mm wall thickness △ Notes: Makes tap connection 3/4" BSP |

Accessories

| Profile (Not to scale) | Code | Description |
|---|------------------------------------|---|
|  | MT00-019 | Replacement cartridge for push taps |
| | MT00-021 | Replacement cartridge for lever clinic taps |
|  | PP00-001 | Anti-rotation locking washers for taps △ Notes: When tightened, these washers lock to the under side of the worktop to prevent twisting of the tap. |
| | PP00-110 PP00-111 | Flanged cast brass nut - 1/2" BSP Flanged cast brass nut - 3/4" BSP |
|  | AT00-028 | Chrome blanking plate (plastic) |

SHOWERS & BATH FILLING

A wide range of sensors, control systems, shower heads and showers combine to create water efficient showering for a wide range of environments, from anti-ligature products to robust showers designed for heavy traffic areas.

DVS Showers offer an average 50% water saving ...



DVS offer complete shower units ready to fix onto the wall. Constructed from robust 316 stainless steel, DVS shower towers offer a safe but attractive, high security and easy to install solution.

DVS shower towers have a choice of either wave-on, tactile or push operation and are self-closing offering energy efficiencies and water savings.

Standard Shower Towers



⬆ Wave-on operated standard tower with high security shower head

⬅ DVS Shower towers are pre-plumbed to help make installation as easy as possible

Features include:

- ▶ Designed for high-security applications
- ▶ Robust 1.5mm stainless steel construction
- ▶ High impact resistance
- ▶ Tamper proof
- ▶ Wave-on, push, or tactile operation
- ▶ Easy to install
- ▶ Up to 50% savings on water
- ▶ Available as Standard, with built-in TMV3 or Ceiling Height

HOW THEY WORK

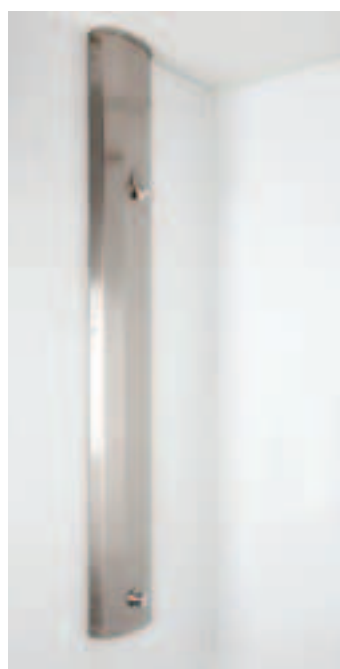
To make installation as simple as possible the towers are pre-plumbed and valves are safely housed within the tower. Controls are supplied with pre-set settings but can be customised quickly and easily from within the control box if necessary.

With electronic wave-on and tactile controlled towers a pre-set runtime is set so that the showers can not be left running for any longer than the pre-set time. The push operated showers operate in a very similar way to a push tap and will self-close after a period of approximately 40 seconds.

Ceiling Height Towers

DVS shower towers are also available in two other categories; with in-built TMV3 or ceiling height. The ceiling height shower towers are extended, wider versions of the standard towers and are designed to hide all pipework to the ceiling.

The TMV3 towers look the same as the ceiling height towers but incorporate a TMV3 mixing valve. The in-built TMV3 valve can be set to optimum shower water temperature which is normally 41°C and will prevent scalding in the event of cold water failure.



SH07-040 ⬆ 30° High security WM showerhead

⬅ **SH01-003** Ceiling height shower tower

Sensor Options

Wave-on sensors or tactile switches are available for controlling showers, either as part of the DVS shower control system or incorporated into the shower towers.



SH00-001 ⬆ Wave-on shower sensor with 50mmø bezel



AC02-047 ⬆ Tactile hot switch with 50mmø s/steel bezel



AC02-046 ⬆ Tactile cold switch with 50mmø s/steel bezel

Major clients include:

- ▶ NHS Estates
- ▶ Education
- ▶ HMP Estates
- ▶ Local Authorities

DVS offer various high and low security solutions that are robust, attractive and easy to install. Our control systems have been specially developed to be as customisable and reliable as possible, whilst being easy to install and maintain.

SHOWERHEADS & ADJUSTERS




SH07-040 
30° High security
showerhead



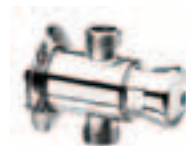
SH07-042 
Ceiling mounted high
security showerhead



SH07-018 
Standard aqua
chrome showerhead



MT00-012 
WM Concealed push
tap for showers



MT00-010 
WM Shower push tap
with top inlet



MT00-011 
WM Shower push tap
with back inlet

Individual Showerheads

Showerheads are available to purchase separately as well as being options for the shower towers.

The showerheads can be used in conjunction with the DVS 'Shower Control System'. The SH07-040 and SH07-042 are intended for installations where everything except the showerhead and sensor are concealed behind a wall or panel.

Features include:

(applies to high security models)

- ▶ Stainless steel
- ▶ Easy to install
- ▶ Tamper proof
- ▶ Ideal for prisons

Features include:

(applies to SH07-018)

- ▶ Swivel 1/2" BSP connection
- ▶ Water efficient
- ▶ Simple retro-fit connection

Push Taps for Showers

DVS offer a variety of self-closing, manually operated push taps for use in showers.

Push taps offer a good level of hygiene and water saving features, provide designs that are tamper-proof and vandal resistant and are easy to install and maintain.

Features include:

- ▶ Up to 50% savings on water costs
- ▶ Adjustable flow rates
- ▶ No-touch self-closing operation
- ▶ In-built filter

TEMPERATURE BLENDING VALVE ADJUSTER

In many public areas supplying water at 41°C is ideal. If however the requirement is to provide 41°C with user adjustment between this temperature and cold (determined by the cold input temperature) then the temperature blending valve adjuster can be added to accommodate this facility.

The blender adjuster is designed to be robust with good aesthetics and therefore suits all applications.

There are three standard fixings available to suit various wall thicknesses ranging from 1.5mm to 280mm. Special sizes can be provided where required.

Features include:

- ▶ Robust construction
- ▶ Tamper proof
- ▶ Easy to install
- ▶ Available for different wall sizes



SH00-011 
Temperature blending
valve adjuster


⚠ Please Note: It is strongly recommended that a thermostatic mixing valve is fitted prior to the blending valve so that hot water temperature can be safely controlled.

CONTROL SYSTEMS



SH07-001 
Shower control system



 Wave-on or Tactile sensors available with this control system




SH07-040 
30° High security showerhead



SH07-054 
Bath filling sensor plate



SH07-055 
Bath filling top-up sensor plate



SH07-053 
Shower tactile sensor plate

Shower Control System

The shower control system can be used for 1 or 2 showerheads. The control system will effectively give any standard showerhead automatic wave-on control. The shower control system also features a built-in purge control option to avoid stagnation.

When a user waves their hand past the sensor (or pushes the tactile switch) the control system activates the solenoid valve and will run for a pre-set time before automatically closing the valve and stopping the shower.

Various settings can be customised quickly and easily from within the control box if necessary.

Features include:

- ▶ Saves water, switches off after pre-set time
- ▶ No-touch operation
- ▶ Hygienic - Helps avoid cross infection
- ▶ Easy to use - Ideal for disabled or elderly
- ▶ High performance & reliability
- ▶ Easy to install & maintain
- ▶ Can individually control 1 or 2 taps
- ▶ Adjustable run-time
- ▶ Settings allow option to 'wave-off'
- ▶ Built-in purge control option to avoid stagnation

Bath Filling

The bath filling control system (SH07-020) can be used with wave-on or tactile switches. The half fill level is half that of the full fill which is adjustable. There are a number of kits available to suit a wide range of requirements.



SH07-020 
Bath control system



SH07-043 
High security bath spout

Benefits of the bath filling control system are similar to the shower control system except that it operates a single valve post thermostatic mixer, with the option of hot and cold if required.

An additional control system can be installed if warm and cold top up is required as well as the full fill and half fill settings. Various sensor plates, water spouts and thermostatic mixing valves are available.

To choose the most suitable solution please request full specification sheets from our sales team.

Bath Filling



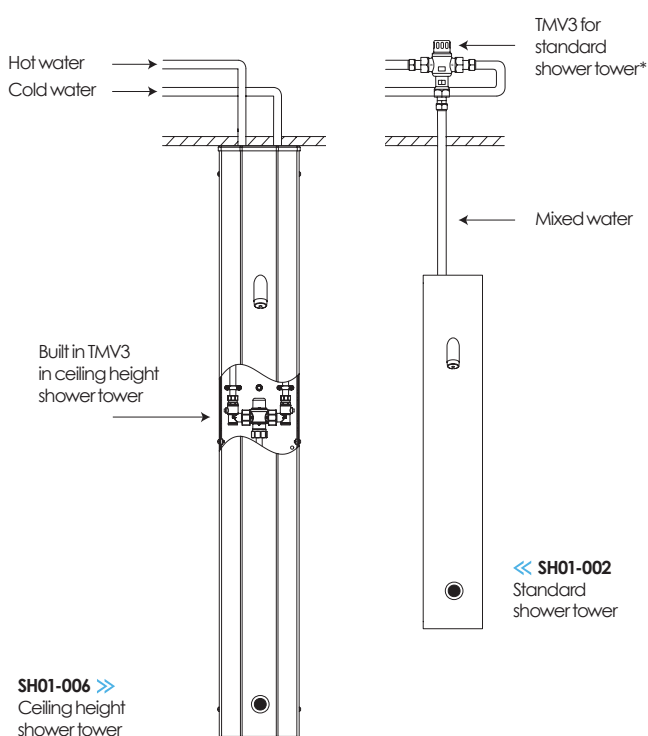
VR01-024 
High Security bath filling backplate



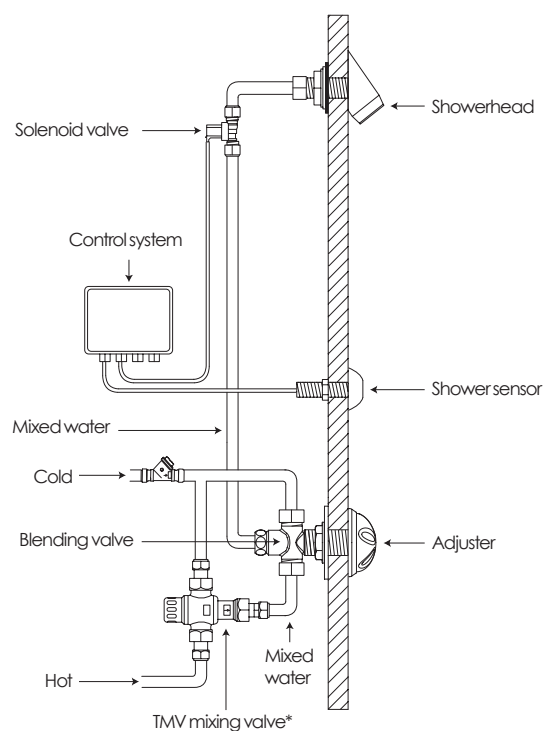
VR01-024 
High security bath filling backplate

Typical Installations

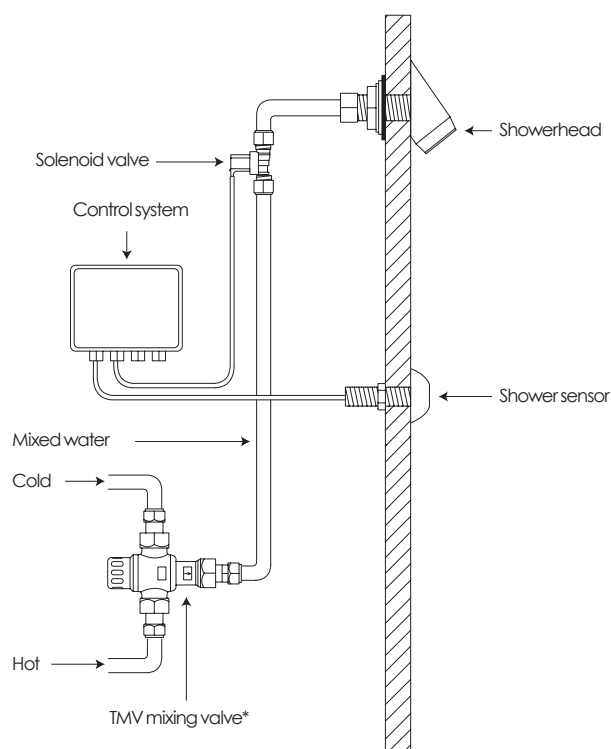
STANDARD SETUP - SHOWER TOWERS



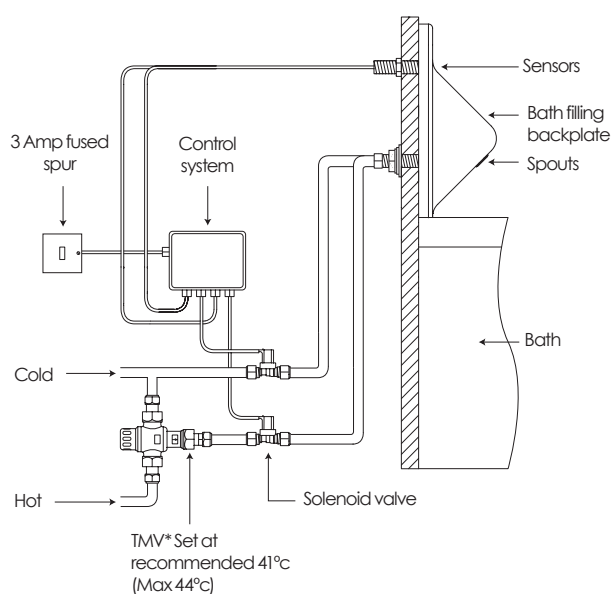
STANDARD SETUP - BLENDING VALVE ADJUSTER



STANDARD SETUP - SHOWER CONTROL SYSTEM



STANDARD SETUP - BATH CONTROL SYSTEM



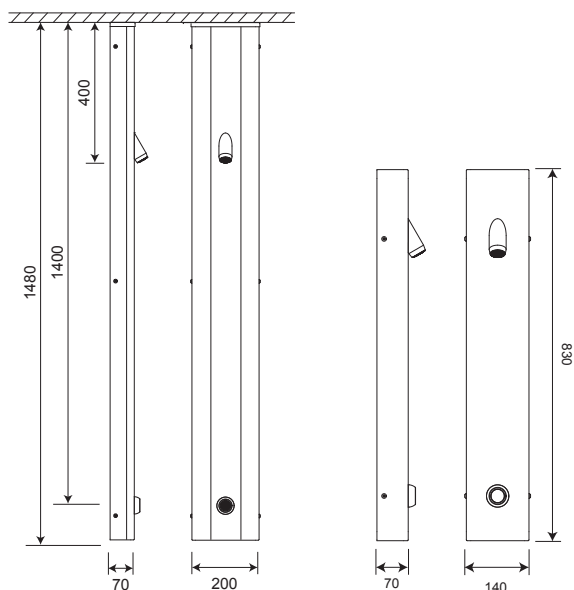
*Not supplied. Required for warm water output and to comply with building regulations. Can be ordered separately from DVS.

Typical installation diagrams are intended as a guide only. Appropriate regulations should be adhered to.

Please note: Illustrations not to scale

Dimensions

SHOWER TOWERS



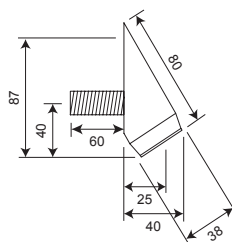
SH01-006

Ceiling height shower tower
Fixing: Screw Fix

SH01-002

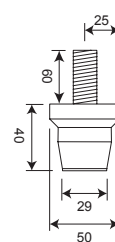
Standard shower tower
Fixing: Screw Fix

SHOWERHEADS AND PUSH TAPS



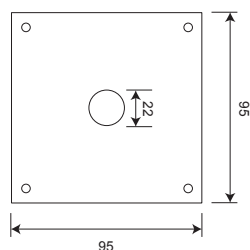
SH07-040

30° High security WM showerhead
Fixing: 1/2" BSP
(22mmØ clearance drill hole)



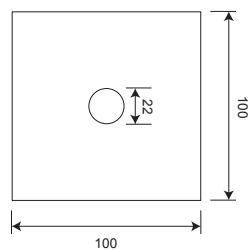
SH07-042

Ceiling mounted high security showerhead
Fixing: 1/2" BSP
(22mmØ clearance drill hole)



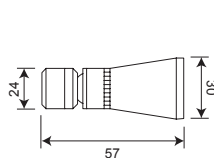
SH07-041

Fixing plate for wall mounted high security showerhead, shower sensor or temperature blending valve adjuster



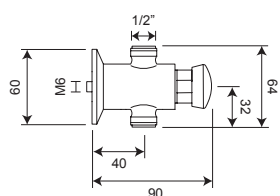
D173/AL/CM/FP

Backplate for ceiling mounted high security showerhead



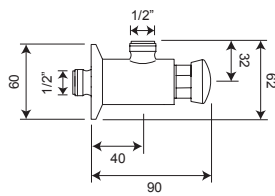
SH00-018

Standard aqua chrome showerhead
Fixing: 1/2" BSP
(22mmØ clearance drill hole)



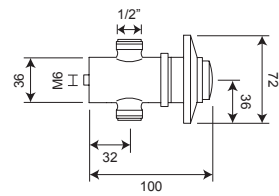
MT00-010

WM push tap for showers
Top Inlet



MT00-011

WM push tap for showers
Back Inlet



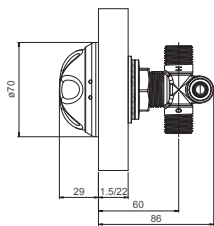
MT00-012

WM concealed push tap for showers
Top Inlet

Please note: Illustrations not to scale

Dimensions

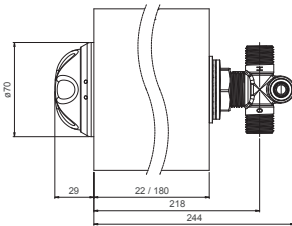
TEMPERATURE BLENDING VALVE ADJUSTERS



SH00-011

1.5mm to 22mm temperature blending valve adjuster

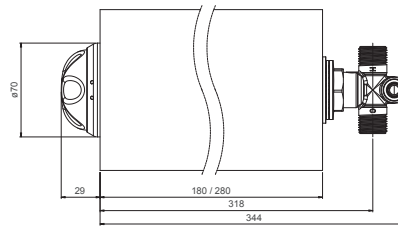
Fixing: 3/4" BSP
(28mmØ clearance drill hole)



SH00-012

180mm temperature blending valve adjuster

Fixing: 3/4" BSP
(28mmØ clearance drill hole)

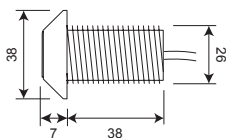


SH00-013

280mm temperature blending valve adjuster

Fixing: 3/4" BSP
(28mmØ clearance drill hole)

SENSORS AND CONTROL SYSTEMS

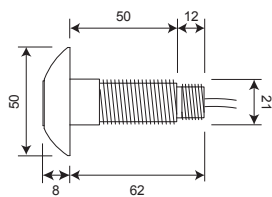


AC02-052

Tactile switch with 38mmØ bezel
(for use with tactile sensor plates)

Cable length: 3m

Fixing: 3/4" BSP
(28mmØ clearance drill hole)

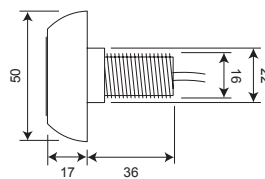


AC02-046 (blue insert)

Tactile switch with 50mmØ bezel

Cable length: 3m

Fixing: 1/2" BSP
Fixing for extension: 3/8" BSP
(22mmØ clearance drill hole)



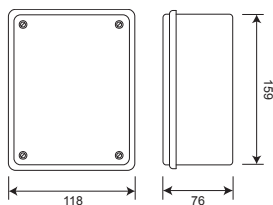
SH00-001

Wave-on sensor with 50mmØ bezel

Cable length: 8m

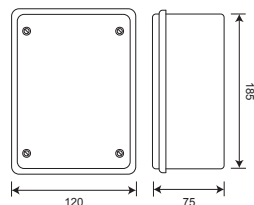
Fixing: 3/8" BSP
(22mmØ clearance drill hole)

CONTROL BOXES



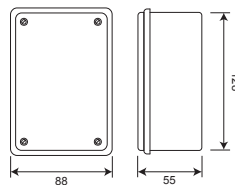
SH07-001 and SH07-020

Shower and bath control systems



SH07-003 and SH07-022

2 Channel Control Box



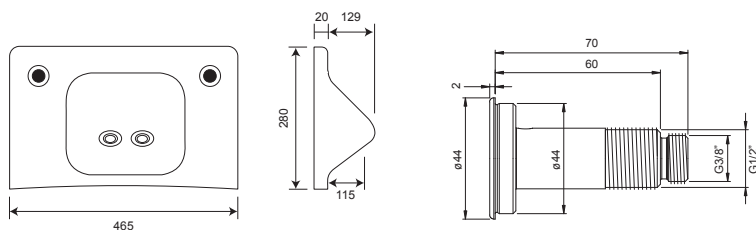
SH07-002 and SH07-021

2 Channel Control Box

Please note: Illustrations not to scale

Dimensions

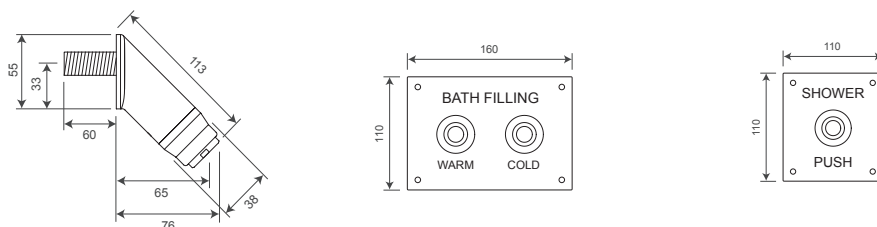
BATH FILLING



VR01-024 High security bath filling backplate

VR00-001 Wave-on sensor for backplates with Blue insert (C) 3m cable
VR00-002 Wave-on sensor for backplates with Red insert - (H) 3m cable

BATH FILLING



SH07-043 45° High security WM bath spout
 Fixing: 3/4" BSP
 (28mmØ clearance drill hole)

SH07-055 and **SH07-054** Dual sensor bath filling plates
 Fixing: Screw fix

SH07-053 Shower plate with 'Push' indication
 Fixing: Screw fix


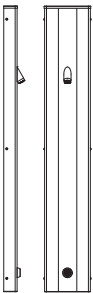
Please note: Illustrations not to scale



« **VR01-024**
 High security bath
 filling backplate
 (bath filling option 1)

SHOWERS & BATH FILLING

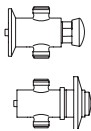
Shower Towers

| Profile (Not to scale) | Code | Description |
|--|-----------------|---|
|  | SH01-001 | Standard tower with high security showerhead - Push (Auto Close) |
| | SH01-002 | Standard tower with high security showerhead - Wave-on - Mains |
| | SH01-003 | Standard tower with high security showerhead - Tactile - Mains |
| | AC17-047 | Thermostatic mixing valve 4in1 - 15/22mm |
| | | Notes: These standard shower towers do not include a TMV3 mixing valve. A TMV3 valve must be purchased separately if mixed water is required. |
|  | | Ceiling height towers |
| | SH01-008 | Ceiling height tower with high security showerhead - Push (Auto Close) |
| | SH01-009 | Ceiling height tower with high security showerhead - Wave-on - Mains |
| | SH01-010 | Ceiling height tower with high security showerhead - Tactile - Mains |
| | AC17-047 | Thermostatic mixing valve 4in1 - 15/22mm |
| | | Ceiling height towers with in-built TMV3 |
| | SH01-004 | Ceiling height TMV3 tower with high security showerhead - Push (Auto Close) |
| | SH01-006 | Ceiling height TMV3 tower with high security showerhead - Wave-on - Mains |
| | SH01-005 | Ceiling height TMV3 tower with high security showerhead - Tactile - Mains |
| | | Notes: Standard ceiling height shower towers do not include a TMV3 mixing valve. A TMV3 valve must be purchased separately if mixed water is required. 'TMV3 shower towers' however include an in-built TMV3 mixing valve. |

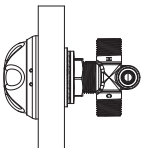
Showerheads & Fixing Plates

| Profile (Not to scale) | Code | Description |
|---|-----------------|--|
|  | SH07-040 | High security showerhead - 30° (80mm long from top) |
| | SH07-042 | High security showerhead - Ceiling mounted |
| | SH00-021 | Replacement loose white rings for the above showerheads |
| | | Notes: Wall mounted. Substantially reduced ligature risk. Standard finish is brushed stainless steel. Polished finish also available. High security showerheads come standard with 60mm 1/2" BSP fixing thread. |
|  | SH07-052 | Backplate for securing SH07-042 ceiling mounted showerhead |
| | SH07-041 | Square fixing plate suitable for SH07-040, shower sensor and blending valve adjuster |
| | | Notes: Standard finish is brushed stainless steel. |

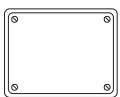


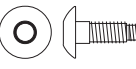





Push Operated Shower Button

| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | MT00-010 | WM shower push tap (Auto Close) - Top inlet |
| | MT00-011 | WM shower push tap (Auto Close) - Back inlet |
| | MT00-012 | WM concealed shower push tap (Auto Close) - Top inlet |
| | MT00-020 | Replacement cartridge for shower push taps (20 - 25 secs) |
| | | Notes: Wall mounted. Chrome plated brass. Minimum pressure of 1 BAR recommended. |

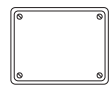

Temperature Blending Valve

| Profile (Not to scale) | Code | Description |
|---|--|--|
|  | SH00-011 | Temperature blending valve adjuster - for 1.5mm to 22mm wall thickness |
| | SH00-012 | Temperature blending valve adjuster - for 180mm wall thickness |
| | SH00-013 | Temperature blending valve adjuster - for 280mm wall thickness |
| | AC17-047 | Thermostatic mixing valve 4in1 - 15/22mm |
| | <p>Notes: Wall mounted, Chrome plated brass. It is highly recommended that a thermostatic TMV3 valve is used prior to the adjuster to avoid scalding.</p> | |

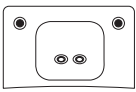
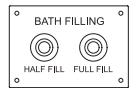
Control Systems

| Profile (Not to scale) | Code | Description |
|--|----------|--|
|     | SH07-010 | Shower control system - 1 station kit - Wave-on sensor |
| | SH07-011 | Shower control system - 2 station kit - Wave-on sensors |
| | SH07-012 | Shower control system - 1 station kit - Tactile switch with 50mmø bezel |
| | SH07-013 | Shower control system - 2 station kit - Tactile switches with 50mmø bezels |
| | SH07-001 | Shower control system for 1 or 2 showers (control box only) |
| | SH07-020 | Bath control system - For use with bath filling plates (control box only) |
| | AC17-009 | Plastic valve (12v DC) with 3m cable and spade connectors |
| | AC17-007 | 12v DC Normally closed valve 4mm - 3W - 0 - 2 BAR TPL25594 |
| | AC17-008 | 12v DC Normally closed valve 7.1mm - 3W - 0-07 BAR TPL25593 |
| | PP00-100 | Shower/Bath control system fuse - Primary - 20mm Glass 240V (T)100mA |
| | PP00-101 | Shower/Bath control system fuse - Secondary - TR5 (F)500mA |
| <p>Notes: Kits include control box, power supply, sensor, 50mmø bezel and solenoid valve with 3m cable and spade connectors. Wave-on sensor bezel is chrome. Standard tactile switch bezel is stainless steel. Requires minimum pressure of 0.5 BAR. Must be used with 3W 12V DC NC solenoids.</p> | | |
|     | SH00-001 | (A) Wave-on shower sensor with 50mmø chrome bezel - c/w 8m cable |
| | AC02-083 | (B) Tactile switch with 50mmø s/st bezel and red insert (Hot) - c/w 8m cable |
| | SH00-002 | Wave-on shower sensor with 50mmø chrome bezel c/w 15m cable |
| | AC02-049 | Tactile switch with 50mmø s/st bezel and Blue insert (Cold) c/w 15m cable |
| | AC02-050 | Tactile switch with 50mmø s/st bezel and Red insert (Hot) c/w 15m cable |
|  | AC02-056 | Sensor thread extension for 100mm wall thickness |
| | AC02-057 | Sensor thread extension for 150mm wall thickness |
| | AC02-058 | Sensor thread extension for 250mm wall thickness |

Battery Operated Shower and Bath Control (use 6v latching valves)

| Profile (Not to scale) | Code | Description |
|--|----------|--|
|   | SH07-002 | 2 Channel shower control box - c/w 6 x AA Batteries |
| | SH07-003 | 2 Channel shower control box - c/w 6 x C Cell Batteries |
| | SH07-021 | 2 Channel bath fill control box - c/w 6 x AA Batteries |
| | SH07-022 | 2 Channel bath fill control box - c/w 6 x C Cell Batteries |

Bath Filling

| Profile (Not to scale) | Code | Description |
|---|----------|---|
|  | VR01-024 | Option 1 High-security bath filling backplate (not including sensors) |
| | VR00-005 | Push sensor for back plates with Blue insert (Cold) c/w 3m cable |
| | VR00-006 | Push sensor for back plates with Red insert (Hot) c/w 3m cable |
| | VR00-001 | Wave-on sensor for back plates with Blue insert (Cold) c/w 3m cable |
| | VR00-002 | Wave-on sensor for back plates with Red insert - (Hot) c/w 3m cable |
| | | Option 2 High security WM bath spout - 45° (113mm long from top) |
|  | SH07-043 | Bath filling plate with half-fill/full-fill, 2 x tactile switch |
| | SH07-054 | Bath filling c/w half-fill/full-fill indication - plate only |
| | SH07-055 | Shower push control plate only, 1 x tactile switch required |
| | AC02-052 | Tactile switch with 38mm bezel for use with control plates |

WATER MANAGEMENT

Although water is often a huge cost faced by businesses and organisations, it is sometimes perceived as one of the most difficult areas to tackle. DVS's experienced team can advise on the most suitable product solutions for each environment based on usage patterns and payback periods.



DVS Water Management products offer up to 60% water saving ...

DVS offer numerous water management products to help save you water, money and timely maintenance visits.

OVERFLOW DETECTION SYSTEM



AC07-001 ⚡
Overflow detection control system



AC07-004 ⚡
Overflow warning light panel

The Overflow Detection (OFD) Control System is designed for companies with large numbers of WCs on site.

The control system can monitor up to 20 cubicles and is usually remotely sited; in the cleaner's cupboard at the end of a toilet block for example.

The digital display on the front of the control box makes it easy to identify which cistern is overflowing.

There is also the facility to have an additional warning light panel outside the cleaner's cupboard which will flash until the problem is rectified. You can also monitor the OFD control system from a BMS system if necessary.

Features include:

- ▶ No more unsightly Visi-Boxes or Tundishes required in the WC cubicles
- ▶ Identifies overflowing WC cisterns immediately
- ▶ Warning panel will continue to flash until rectified
- ▶ Will pay for itself in water saving
- ▶ Easy to install and maintain

Water Saving

The main purpose of the OFD Control System is to save water. The calculations below show how savings are achieved:

1 x WC cistern overflowing at a very nominal 1 litre per minute will use 1440 litres of water every 24 hours, equalling 1.4m³ per day.

1.4m³ per day (if undetected for a month) = 43.4 m³ x water and sewerage cost of £2.00 per m³ (national average) = £86 per month on one unidentified WC cistern overflow.

WATER ISOLATION SYSTEM

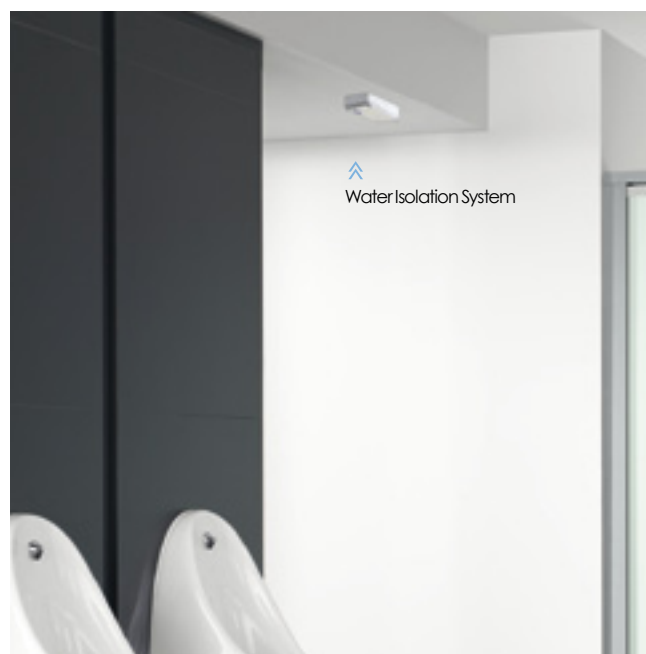


AC04-001 ⚡
Water Isolation System

The DVS water isolation system is designed to shut off the water supply to washroom facilities when they are not occupied, preventing water wastage and possible damage from overflows.

The product is available with one or two solenoid valves for hot and cold water isolation and is offered as either battery or mains operated systems.

The water isolation system works by fitting the sensor above the entrance to the washroom facilities. The sensor is capable of detecting movement up to 6m from the control box. If the washroom is empty, the system will shut off the water supply, preventing wastage from leaks and overflows, avoiding flooding and damage to the washroom.



Major clients include:

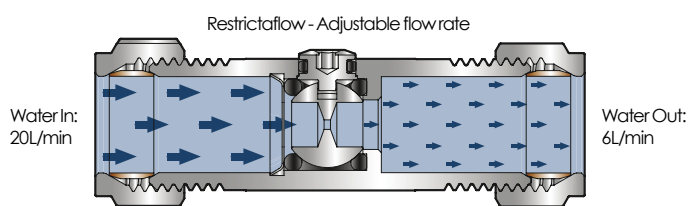
- ▶ BAA Airports
- ▶ Local Authorities
- ▶ Office and Retail
- ▶ Schools, colleges and universities
- ▶ Perth & Kinross Council
- ▶ Carlisle City Council

A quick and easy solution to reduce the speed of water flow, with a very short payback period.

FLOW RESTRICTING VALVE

Restrictaflow offers savings of approximately 40%, and the unit is so inexpensive that you can be confident of recovering the cost in a few weeks.

The flow is adjustable, and the valve can also be isolated. If you are considering fitting standard isolating valves, Restrictaflow delivers the flexibility of an isolation valve alongside considerable water and energy saving benefits.

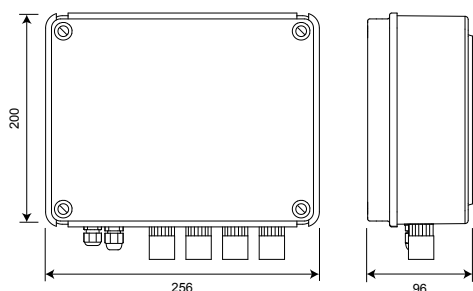


AC17-039 <<
Restrictaflow

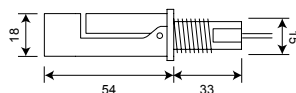
Save water and
energy costs...
with Restrictaflow!

Dimensions

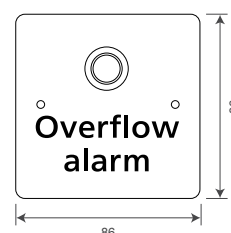
OVERFLOW DETECTION CONTROL SYSTEM



AC07-001 <>
Overflow detection control system
Mains cable length: 1.5m

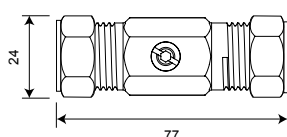


AC07-002 <>
Float switch
Cable length: 500mm
Fixing: M16 (16mmØ clearance drill hole)



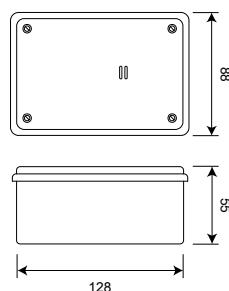
AC07-004 <>
Stainless steel overflow warning
light panel

RESTRICTAFLOW



AC17-039 <>
Restrictaflow valve - 15mm

WATER ISOLATION SYSTEM

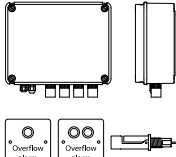
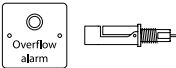


AC04-001 <>
Water isolation system
(Leads not included)

Please note: Illustrations not to scale

WATER MANAGEMENT

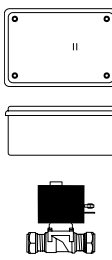
Overflow Detection Control System

| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | AC07-001 | Overflow detection control system - Control box only (for up to 20 cubicles) |
| | AC07-002 | Float switch - Individual |
| | AC07-004 | Overflow detection control system - S/Steel overflow warning light panel - Single |
| | AC07-005 | Overflow detection control system - S/Steel overflow warning light panel - Double |
| | PP00-103 | Replacement fuse for overflow detection control system - 20mm Glass (T)50mA △ Notes: 1 float switch is required for each cistern that the control system will be monitoring. 1 control box will monitor upto 20 cubicles. |
|  | AC07-003 | Single station overflow detection control system - For a single WC cubicle △ Notes: For monitoring a single WC cubicle and comes complete with light panel, power supply and float switch. |

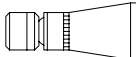

Restrictaflow Valve

| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | AC17-039 | Restrictaflow in-line flow restricting valve - 15mm |

Water Isolation Kit

| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | AC04-002 | Water isolation system kit with 1 x Standard 15mm latching valve - Battery |
| | AC04-008 | Water isolation system kit with 1 x Standard 15mm latching valve - Mains |
| | AC04-003 | Water isolation system kit with 2 x Standard 15mm latching valves - Battery |
| | AC04-009 | Water isolation system kit with 2 x Standard 15mm latching valves - Mains |
| | AC04-004 | Water isolation system kit with 1 x 22mm latching valve - Battery |
| | AC04-010 | Water isolation system kit with 1 x 22mm latching valve - Mains |
| | AC04-005 | Water isolation system kit with 2 x 22mm latching valves - Battery |
| | AC04-011 | Water isolation system kit with 2 x 22mm latching valves - Mains |
| | UC00-024 | Water isolation system fuse - TR5 (T)1.6A △ Notes: Incorporates infrared sensors and shut off isolation solenoid valves. Kits come complete with controls, battery (or PSU) and 1 or 2 solenoid valves. 15mm valves standard. |
| | | |

Showerheads

| Profile (Not to scale) | Code | Description |
|---|-----------------|--|
|  | SH00-018 | Standard aqua chrome showerhead |
|  | SH00-020 | Showerhead flow reducer insert - Reduces to 8 ltrs/min △ Notes: Low flow energy and water saving showerhead. Chrome plated brass. Provides flow rate of 11 ltrs/min @ 6 BAR. Minimum pressure of 1 BAR recommended |

WASHROOM SANITARYWARE

Offering a range of ready plumbed modules, WC pans, basins and urinals, high quality access panels and sanitaryware are the ideal accompaniment to the DVS range.

UC07-001 >>
Urinal control system



DVS have teamed up with specialists The Sanitaryware Company to help provide an easier all-round solution to purchasing complete washroom suites. SanCeram ceramics compliment DVS products very well and add that finishing, professional touch.


SANCERAM CERAMICS BY THE SANITARYWARE COMPANY

SanCeram the **sanitaryware** company


With SanCeram's large catalogue of ceramics you can be sure to find the perfect companion for so many DVS automatic washroom products.

All the ceramics shown are vitreous china built to BS 3402 standards. The glaze is integral with the ceramic body and is resistant to water absorption, burning, stains, scratching and attack by acids or alkalis.



SW00-031 
Chartham Rimless WC
BTW 750mm Projection



SW00-029 
Chartham Back To Wall WC,
480mm High




SW00-036 
Chartham Concealed Trap
Urinal




SW00-026 
Chartham Standard
Wall Hung WC



SW00-045 
Chartham 500mm Wall
Hung Basin with Right
Hand Tap Hole



SW00-042 
Chartham Wall Hung Back
Outlet Basin

CERAMICS



SW00-047
Chartham Wall Hung
Basin, 380mm with Right
Hand Tap Hole

DOC.M PACK



SW00-051 
SanCeram Back to Wall Doc M Pack, Left Handed with White Rails.

WASTES




SW00-050 
1 1/4" Click
Clack Unslotted
Waste




SW00-055 
1 1/4" Click
Clack Slotted
Waste



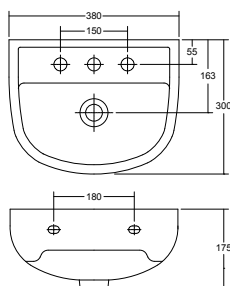
SW00-049 
1 1/4" Unslotted
Strainer Waste



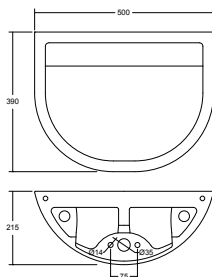
SW00-056 
1 1/4" Slotted
Strainer Waste

Dimensions

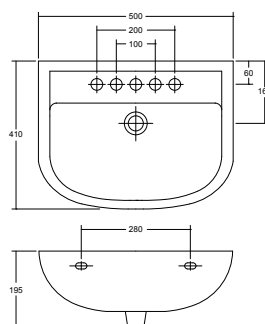
CERAMICS



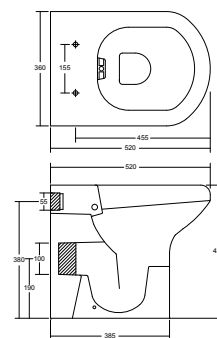
SW00-047 & SW00-048
Chartham basin WH 380mm
RH/LH tap hole options



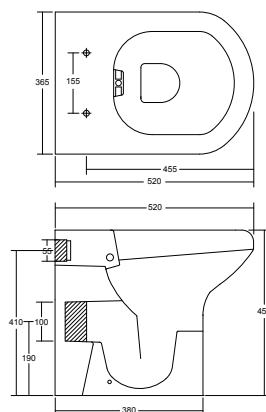
SW00-042
Chartham basin WH 500,
back outlet



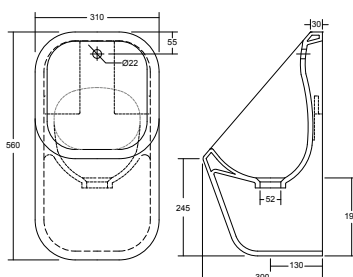
SW00-045 & SW00-046
Chartham basin WH 500mm
RH/LH tap hole options



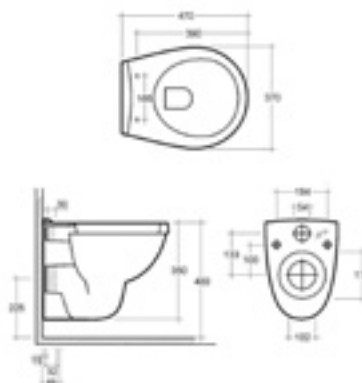
SW00-028
Chartham WC BTW 450mm



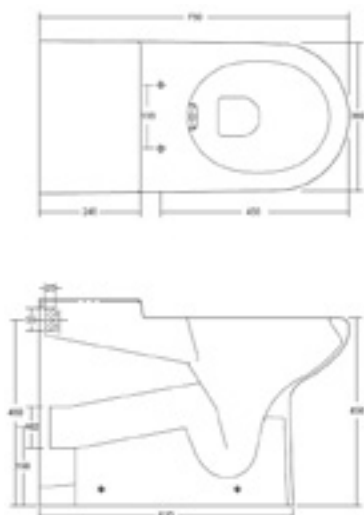
SW00-029
Chartham WC BTW 480mm



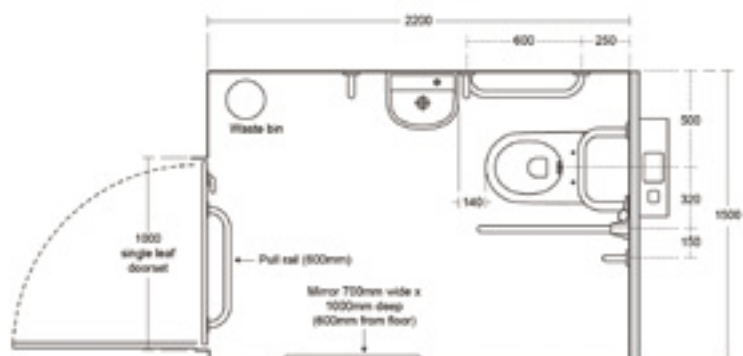
SW00-036
Chartham concealed trap urinal



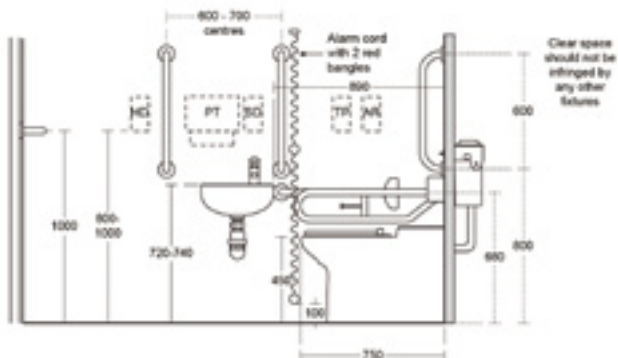
SW00-026
Chartham WC WH standard



SW00-031
Chartham WC BTW 750mm



HD - Possible position for automatic hand dryer
SD - Soap dispenser
PT - Paper towel dispenser
AR - Alarm reset button
TP - Toilet paper dispenser



SW00-051
SanCeram Back to Wall Doc M Pack, Left Handed
with White Rails.

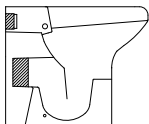
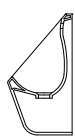
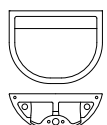

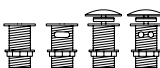
Please note: Illustrations not to scale

WASHROOM SANITARYWARE

Ceramics

All the ceramics shown are vitreous china built to BS 3402 standards.

Ceramics

| Profile (Not to scale) | Code | Description |
|---|----------|--|
|  | SW00-026 | Chartham WC WH standard |
| | SW00-027 | Support brackets & fixings for WH WC |
| | SW00-028 | Chartham WC BTW 450mm |
| | SW00-029 | Chartham WC BTW 480mm |
| | SW00-030 | Chartham WC BTW 700mm |
| | SW00-031 | Chartham WC BTW 750mm |
| | SW00-032 | Chartham seat & cover, wall hung only |
| | SW00-033 | Chartham seat & cover, standard BTW |
| | SW00-034 | Chartham seat, no cover white |
| | SW00-035 | Chartham seat, no cover blue |
|  | SW00-036 | Chartham concealed trap urinal |
| | SW00-037 | Chartham urinal spreader |
| | SW00-038 | Chartham urinal separator |
| | SW00-039 | 1 1/2" plastic domed waste |
| | SW00-040 | 1 1/2" P trap 75mm seal |
| | SW00-041 | 1 1/2" plastic elbow |
|  | SW00-042 | Chartham basin WH 500, back outlet |
| | SW00-043 | 1 1/4" Waste outlet adaptor, hanger and toggie bolts |
| | SW00-045 | Chartham basin WH 500mm RH tap |
| | SW00-046 | Chartham basin WH 500mm 2 tap |
| | SW00-047 | Chartham basin WH 380mm RH tap |
| | SW00-048 | Chartham basin WH 380mm LH tap |
|  | SW00-051 | Doc M LH White |
| | SW00-052 | Doc M LH Blue |
| | SW00-053 | Doc M RH White |
| | SW00-054 | Doc M RH Blue |
|  | SW00-056 | 1 1/4" Strainer Waste, Slotted |
| | SW00-049 | 1 1/4" Strainer Waste, Unslotted |
| | SW00-055 | 1 1/4" Click Clack Slotted Waste |
| | SW00-050 | 1 1/4" Click Clack Unslotted Waste |

WASHROOM HYGIENE

P+L Systems®
Washroom

A brand of the P+L Systems Group, P+L Systems Washroom is Europe's leading supplier of fragrances and dispensers with over 25 years experience in developing products for commercial washroom use. From low energy hand dryers to sophisticated fragrances, choose from a range of products to add the perfect finishing touch to your washroom.



For more information on the full range of P+L Systems Washroom products please visit www.pandlwashroom.com

FRAGRANCE DISPENSERS

Using Fragrance Dispensers allows continuous control of odours, and can provide up to one months continuous protection. The Fragrance Dispenser comes complete with a built in 24 hour clock and programmable spray time to maximise spray efficiency.

LCD Fragrance Dispensers

Features:

- ▶ Strong chemical resistant polypropylene plastic
- ▶ Low battery indicator - Red LED
- ▶ Empty can indicator - Green LED
- ▶ Lockable dispenser with generic key
- ▶ 5 year guarantee
- ▶ Requires 2 x C size alkaline batteries
- ▶ Factory set for metred 15 minute, 7 day release
- ▶ Complete flexibility of start/stop time
- ▶ Complete flexibility of spray time between 1 and 60 minutes
- ▶ Days remaining can life indication
- ▶ Built in 24 hour clock
- ▶ 'Day off' programming capability



AC00-045 <<
Chrome



AC00-011 <<
White

Precious Fragrances

The Precious range of fragrances has been developed to offer a range of luxurious environment enhancers. Each fragrance is rich and distinct, and evolves throughout the day offering a carefully selected blend of aromas to capture the senses.

Fragrances Available:

- ▶ W501 Precious Ruby
- ▶ W502 Precious Sapphire
- ▶ W501 Precious Amethyst
- ▶ W502 Precious Amber
- ▶ W502 Precious Emerald

VIRTUAL JANITOR

The Virtual Janitor attacks foul odours at source using antimicrobial agents to kill bacterial growth within urinal pipes. The built in fragrance also works in tandem with the metered fragrance dispenser, using the flexible drip tube or directly into the down pipe using the in-line installation kit, to constantly perfume the washroom.



AC00-020 ⚡
White Virtual Janitor



AC00-019 ⚡
Chrome Virtual Janitor

Features:

- ▶ Easy to install
- ▶ Low cost to operate, refills last 30 or 60 days
- ▶ Saves daily cleaning and chemical costs
- ▶ Complete mounting kit
- ▶ Lockable unit with generic key
- ▶ Requires 2 x C size alkaline batteries
- ▶ Available with in-line installation kit

Virtual Janitor Refills

Choose from three fresh smelling, antimicrobial fragrances:

- ▶ Mango
- ▶ Apple Mint
- ▶ French Kiss

Choose from a range of automatic washroom products to encourage hygienic hand washing and drying.

POWERFUL LOW POWER DRAW HAND DRYERS

Combining high speed hand drying with efficient low power draw, these powerful dryers offer energy-conscious users an ideal 'eco-dry' solution. Perfect for high traffic washrooms, this range offers a speedy hand drying time, as well as a robust yet stylish brushed stainless steel cover, making them a stunning addition to contemporary washrooms.



AC00-001 <<
Hand dryer 1000w, brushed stainless steel

Features include:

- ▶ Contemporary design
- ▶ High speed 29,000 RPM motor
- ▶ Robust, brushed stainless steel cover
- ▶ Security lock screws
- ▶ Discreet or simple wiring options
- ▶ 14 - 17 second drying time
- ▶ 3 year guarantee

Specification:

- ▶ AC 220 - 240v / 50-60Hz
- ▶ 3.8 kg
- ▶ 29,000 r.p.m
- ▶ Reduced 1000w power draw
- ▶ 75 db



AC00-002 <<
Hand dryer 1600w, brushed stainless steel

Features include:

- ▶ Contemporary design
- ▶ High speed 18,000 RPM motor
- ▶ Ergonomic blue lighting hands to optimum drying zone
- ▶ Robust, brushed stainless steel cover
- ▶ Security lock screws
- ▶ Discreet or simple wiring options
- ▶ 12 - 15 second drying time
- ▶ 5 year guarantee

Specification:

- ▶ AC 220-240v / 50-60Hz
- ▶ 5.8 kg
- ▶ 18,000 rpm
- ▶ 1600w power draw
- ▶ 78db

GREAT VALUE HAND DRYERS IN A RANGE OF FINISHES

Available in white plastic, brushed stainless steel and white metal finishes, this range of high quality, reliable automatic hand dryers offers great value for money.



AC00-003 <<
Hand dryer 2100w, brushed stainless steel



AC00-004 <<
Hand dryer 2100w, white metal



AC00-005 <<
Hand dryer 2100w, white plastic

Features include:

- ▶ Contemporary design
- ▶ High speed 5,000 RPM motor
- ▶ Security lock screws
- ▶ Discreet or simple wiring options
- ▶ 30 second drying time
- ▶ 2 year guarantee

Specification:

- ▶ AC 230v / 50Hz
- ▶ 5,000 rpm
- ▶ Effective 2100w draw
- ▶ 75db


Save money with the low power draw of the 'eco-dry' range, with payback of less than 35 months

DVS powerful automatic hand dryers boast a very high specification and come in a variety of finishes/materials.

AUTOMATIC LIQUID SOAP DISPENSER

Automatic liquid soap dispensers have built-in sensors which detect a users hands when placed under the dispenser. A clean shot of liquid soap is dispensed automatically without any need to touch the unit, reducing cross-contamination and substantially improving hygiene in the washroom.



AC00-030 
Automatic soap dispenser, stainless steel

Features include:

- ▶ Touch-free operation
- ▶ Vandal resistant casing
- ▶ Requires 3 x 1.5v C cell batteries
- ▶ Battery-low indicator
- ▶ Capacity 800cc of soap



AC00-037 
Automatic soap dispenser, white

Features include:

- ▶ Touch-free operation
- ▶ Stylish, contemporary design
- ▶ Security locking system
- ▶ Requires 6 x AA batteries
- ▶ Battery-low indicator
- ▶ Liquid & soap compatible

BABY CHANGING

Installing a changing station provides parents with a safe, convenient and hygienic changing facility in away from home locations.



◀ **AC00-041**
White Changing Station

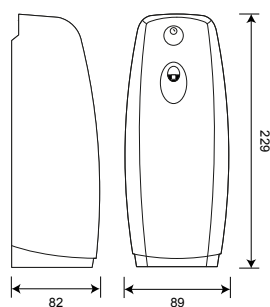
Changing Station Features include:

- ▶ Compact ultra-slim profile
- ▶ Heavy-duty integral moulded hinges for strength and safety
- ▶ Gas-strut dampened for controlled and safe opening/closing
- ▶ Easy-load integral moulded dual liner dispensers, fully encapsulated for hygiene assurance
- ▶ Twin integral moulded bag-hooks for convenience
- ▶ Soft-feel waterproof retaining strap
- ▶ Heavy-duty fixings for safety assurance
- ▶ Large radius internal contours for comfort and safety
- ▶ 5 year guarantee

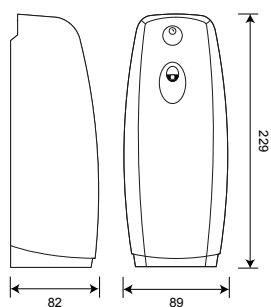


Dimensions

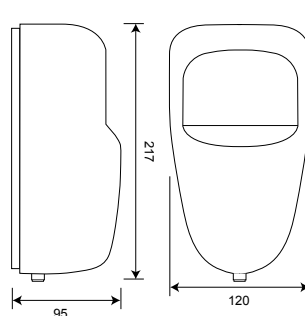
WASHROOM HYGIENE



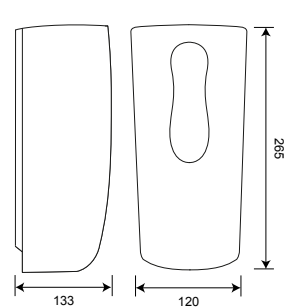
AC00-011
LCD Franchise dispenser - White



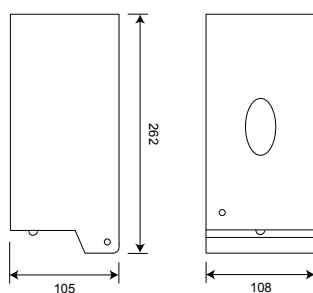
AC00-045
LCD Franchise dispenser - Chrome



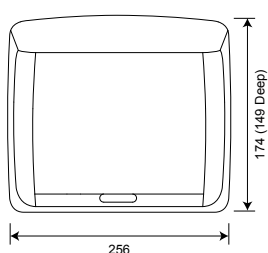
AC00-020 / AC00-019
Virtual Janitor - White / Chrome



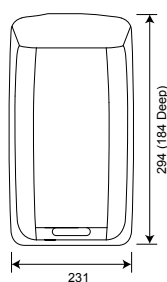
AC00-037
Automatic liquid soap dispenser - White



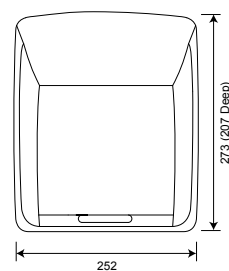
AC00-030
Automatic liquid soap dispenser - Stainless Steel



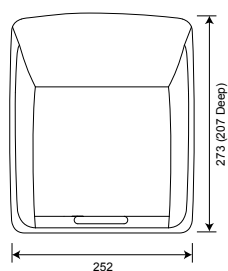
AC00-001
Hand dryer 1000w, brushed stainless steel



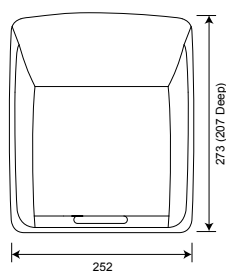
AC00-002
Hand dryer 1600w, brushed stainless steel



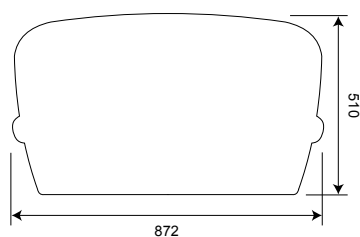
AC00-003
Hand dryer 2100w, brushed stainless steel



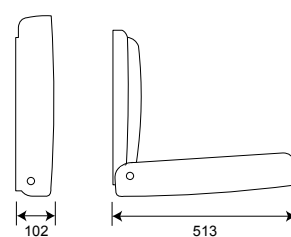
AC00-004
Hand dryer 2100w, white metal



AC00-005
Hand dryer 2100w, white plastic




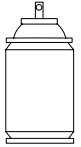
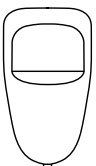
AC00-041
Changing station - white



Please note: Illustrations not to scale

WASHROOM HYGIENE

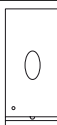
Washroom Fragrancing

| Profile (Not to scale) | Code | Description |
|--|-----------------|---|
|  | AC00-011 | LCD White aerosol dispenser |
| | AC00-045 | LCD Chrome aerosol dispenser |
| | PP00-104 | C-Cell Procell battery for use with dispenser |
|  | AC00-012 | Precious range Amber |
| | AC00-013 | Precious range Amethyst |
| | AC00-014 | Precious range Emerald |
| | AC00-015 | Precious range Ruby |
| | AC00-016 | Precious range Sapphire |
|  | AC00-020 | Virtual Janitor White |
| | AC00-019 | Virtual Janitor Chrome |
| | AC00-021 | Virtual Janitor In-Line Kit |
| | AC00-022 | Refill - Single - Apple Mint 298ml |
| | AC00-023 | Refill - Single - French Kiss 292ml |
| | AC00-024 | Refill - Single - Mango 298ml |
| | PP00-104 | C-Cell Procell battery for use with dispenser |


Hand Dryers

| Profile (Not to scale) | Code | Description |
|---|-----------------|----------------------------------|
|  | AC00-001 | Hand Dryer Brushed S/Steel 1000w |
| | AC00-002 | Hand Dryer Brushed S/Steel 1600w |
| | AC00-003 | Hand Dryer Brushed S/Steel 2100w |
| | AC00-004 | Hand Dryer White Metal 2100w |
| | AC00-005 | Hand Dryer White Plastic 2100w |

Soap Dispensers

| Profile (Not to scale) | Code | Description |
|---|-----------------|--|
|  | AC00-030 | Automatic soap dispenser - Stainless steel |
| | AC00-032 | Standard washroom soap re-fill |
| | AC00-037 | Automatic soap dispenser - White |
| | PP00-105 | AA Batteries |


Baby Changing

| Profile (Not to scale) | Code | Description |
|---|-----------------|-------------------------|
|  | AC00-041 | Changing station, White |

SAFE ENSUITES

Designed for the toughest environments and manufactured using advanced technologies, safe-ensuite sanitaryware is robust yet designed to look domestic, making it ideal for therapeutic environments.



VR01-001 

VR01-004

High security basin and
optional backplate with
moulded shelf

« VR01-013

High security WC pan
(with optional side infill available
left or right of pan)

Tested at the HMP test centre

The impressive range of DVS high security sanitaryware has been specially designed and developed for high security applications. Their design and construction are unique and unrivalled. The products have a gloss finish similar to that of porcelain, giving an attractive domestic look.

HIGH SECURITY SANITARYWARE

The techniques employed to construct these high security products are used very successfully in the field of ballistic armour.

Additional properties include high resistance to cyclical stresses and dual stage failure mode. This provides excellent impact resistance and will not be subject to catastrophic failure.

The surface of the product is a high-grade polyester gel coat specifically formulated for use with sanitaryware. It is formulated to produce high chemical resistance and resistance to ultraviolet effects.

Applications

DVS offer a range of ensuite packages, ensuring that you can select the perfect solution for your safe accommodation requirements.

The unique features suit high and low risk mental health units, prisons, police cells and other custodial applications.

Safety

The DVS high security sanitaryware range has been designed and tested to be vandal proof and avoid ligature points wherever possible.

The sanitaryware has been tested at HMP test centre at Lindholme. Unfortunately we cannot guarantee protection against those intent on self-harm, but consider that the designs and precautions taken are to a very high standard, reducing the risks significantly.



VR01-017 
Wall hung pan

THE PROBLEM

Conventional safe-ensuite sanitaryware can be broken and can shatter, producing dangerous shards of material for self harm or to harm others.

Conventional safe-ensuite sanitaryware is also extremely heavy, often needing 2 people to carry a single WC pan!

THE SOLUTION!

DVS high security sanitaryware has excellent impact resistance and will not shatter or produce dangerous shards of material.

As well as being very tough, the product is light with a toilet pan weighing less than 17kg!

Common features:

- ▶ Designed for high-security applications
- ▶ Virtually indestructible
- ▶ High impact resistance
- ▶ Anti-shatter moulded resin (avoiding the possibility of obtaining dangerous material, for self harm or to harm others)
- ▶ Home Office tested for anti-vandal, reduced-ligature and fire resistance
- ▶ Secure wall mount fixings (included)
- ▶ White sanitaryware grade gel coated finish
- ▶ Hygienic non-porous surface
- ▶ Attractive domestic look

DVS use ballistic armour manufacturing technologies for the production of a unique range of safe-ensuite sanitaryware.

The unique features suit high and low risk mental health units, prisons, police cells and other custodial applications.

WC PAN & EXTRAS



VR01-014 ⚡
High security WC pan
(with optional side infill available
left or right of pan)



VR01-017 ⚡
Wall hung pan



VR01-012 ⚡
Disabled WC pan white
enamelled steel spacer box
(for use with high security
disabled WC pan only)

WC Pan features:

- ▶ Concealed rear waste outlet
- ▶ Large trap to reduce blockages
- ▶ Optional facilities to lock-out water operations
- ▶ Optional side in-fills
- ▶ Optional disabled riser and spacer box

Wash Basin features:

- ▶ Rear concealed waste outlet
- ▶ Water thermostatically controllable
(using separate TMV3 valve - not supplied)
- ▶ Loose rubber plug (no chain, avoids ligature)
- ▶ In-built sensors (sold separately)
- ▶ In-built water spouts
- ▶ Moulded soap shelves
- ▶ Wave-on control (sold separately)
- ▶ Facilities to lock-out water operations
- ▶ Optional backplate with moulded shelf
- ▶ Spectrum backplate designed specifically to fit on
top of Twyford Spectrum wash basin

WASH BASIN & BACKPLATES



VR01-005 ⚡
High security basin
and backplate



VR01-001 ⚡
VR01-004
High security basin and
optional backplate with
moulded shelf



VR01-003 ⚡
Optional small backplate
for use with High Security
basin (VR01-001)



VR01-023 ⚡
Spectrum backplate
(designed for Twyford Solo
Spectrum wash basin)

Mirror features:

- ▶ Moulded frame
- ▶ Virtually indestructible plastic mirror

Soap Dish features:

- ▶ Moulded soap outlet for easy cleaning
- ▶ Easy and secure method of fixing

No-Touch Wave-On Sensor features:

- ▶ Extremely reliable
- ▶ Reduced-ligature
- ▶ Vandal resistant

High Security Deck Mount Tap features:

- ▶ Extremely reliable
- ▶ Reduced-ligature
- ▶ Vandal resistant

OTHER/ACCESSORIES



VR01-025 ⚡
High security mirror



VR01-026 ⚡
High security corner
soap dish



AT07-056 ⚡
High security deck
mounted spout, brushed



VR02-001 ⚡
Hand rinse



VR02-002 ⚡
Urinal

WASHROOM CONTROL SYSTEMS

The Washroom Control System has been specially designed to meet the requirements of the modern day safe-ensuite in mental health units, prisons and police cells.

Dart Valley Systems also offer individual controls for taps, showers or WC flushing, however the Washroom Control System offers an outstanding value for money all encompassing control package.

Capable of managing:

- ▶ DVS WC Flushvalve
- ▶ Shower control
- ▶ Call-out button for manual or computer interfacing
- ▶ Hot and cold tap control (ideal for controlling the DVS high security backplate with in-built water spouts)
- ▶ All of the above controls have the built in option of 'Lock-Out', to limit the amount of operations in each period of adjustable run times

Features include:

- ▶ Multi-function unit from one control
- ▶ Variable functions allowing custom setups to suit individual requirements
- ▶ Optional reset or lock-out feature from a keyswitch controlled pad
- ▶ Lock-outs (selectable)
- ▶ Optional call-out button
- ▶ Can be integrated to monitor water usage and number of times used
- ▶ Covers a variety of uses (reduces installation and unit cost dramatically)
- ▶ Purge facility

Major clients include:

- ▶ Interserve
- ▶ Laing O'Rourke
- ▶ Crown House Technologies
- ▶ WH Foster
- ▶ Bushboard
- ▶ St Andrews Healthcare
- ▶ Off Site Solutions
- ▶ Cumbria Partnership NHS Foundation
- ▶ Venesta Washrooms
- ▶ Care Principles Ltd



VR07-002 Washroom Control System

The DVS Washroom Control System is capable of managing WC flushing, shower control, and a wash basin with two tap spouts.



AC02-040



AC02-041 Anti-Vandal Sensors



AT07-001 Tap Control System

Tap Control System

The tap control system can be used to control mixed water for 1 or 2 taps, or to control both hot and cold on a single tap using 2 sensors. The control system can be used with wave-on or tactile sensors. The tap control system also features built-in purge control option to avoid stagnation.

When a user waves their hand past the sensor (or pushes the tactile switch) the control system activates the solenoid valve. The valve will then run for a pre-set time before automatically closing the valve and stopping the tap.

Various settings can be customised quickly and easily from within the control box if necessary.

Features include:

- ▶ Saves water, switches off after pre-set time
- ▶ No-touch - Helps avoid cross infection
- ▶ High performance & reliability
- ▶ Adjustable run-time
- ▶ Settings allow option to 'wave-off'

A range of safe ensuite packages make selecting the right products simple, including high risk and low risk options.

COMPLETE ENSUITE PACKAGES

There are two categories to consider:

- ▶ High risk (includes unbreakable sanitaryware)
- ▶ Low risk (includes Twyford ceramic sanitaryware with DVS backplate)

Standard DVS ensuite products are designed and tested for the high risk category and are proposed for these areas.

Safety

Dart Valley Systems' high security safe-ensuite products have been designed and tested to be vandal proof and avoid ligature points wherever possible.

The sanitaryware has been tested at HMP test centre at Lindholme. Unfortunately we cannot guarantee protection against those intent on self-harm, but consider that the designs and precautions taken are to a very high standard, reducing the risks.

Features include:

- ▶ Designed to avoid ligature points
- ▶ Products designed to be vandal proof
- ▶ Reduces the possibility of patients obtaining dangerous material, for self harm or to harm others
- ▶ Water is thermostatically controlled
- ▶ Facilities to 'lock-out' water operations
- ▶ Easy to use
- ▶ Aesthetically attractive

Package Categories

There are two packages available for each category. Both categories offer suites with and without shower facilities.

High Risk Ensuite

The 'High Risk' category includes DVS unbreakable sanitaryware to increase the overall security of the ensuite. This sanitaryware has been specially designed for high security applications with several safety advantages over standard sanitaryware.

Low Risk Ensuite

Some Trusts may consider that low risk areas do not require specialist unbreakable sanitary ware. High security basin and backplate and Galerie WC pans are therefore proposed for these areas.

In every other respect the 'High Risk' and 'Low Risk' safe ensuites are to the same specification. This means that the operation, technology, products and maintenance are standard throughout.

Sensor Options

There are two options for operating the shower and WC Flushvalve. Both are vandal proof and virtually ligature free.

Most installations use the wave-on sensor but some prefer the push button tactile switch to reduce the risk of accidentally turning on the shower.



AC02-040 Anti-vandal wave-on sensor with 50mm chrome bezel for WC

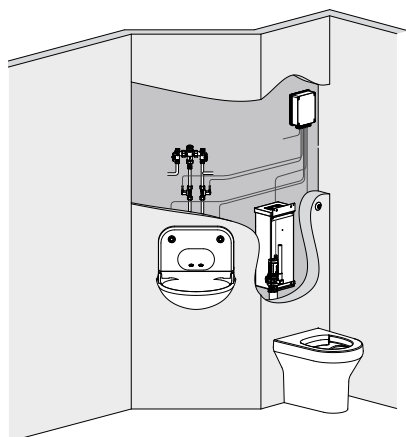


AC02-046 Tactile switch with 50mm stainless steel bezel



SH00-011 Ligature Resistant Blending Valve

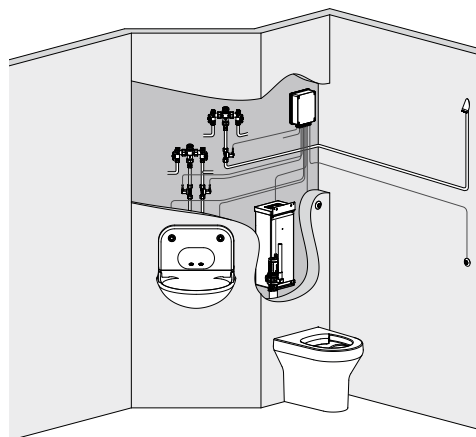
HIGH RISK ENSUITE PACKAGES



« Package 1 -
High Risk excl. shower

Package 1 includes:

- 1 x Washroom control system
- 1 x TMV3 Thermostatic mixing valve
- 2 x Solenoid valves
- 1 x High security backplate
- 1 x High security basin
- 1 x WC Anti-vandal wave-on sensor
- 1 x WC Flushvalve
- 1 x Concealed cistern kit
- 1 x High security WC pan



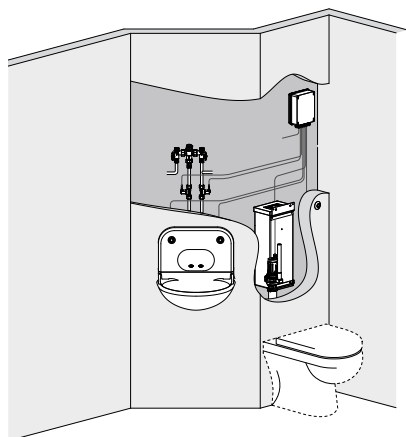
« Package 2 -
High Risk incl. shower

Package 2 includes:

All of Package 1 plus:

- 1 x Shower sensor for showerhead
- 1 x Anti-ligature showerhead
- 1 x Additional TMV3 mixing valve
- 1 x Additional solenoid valve

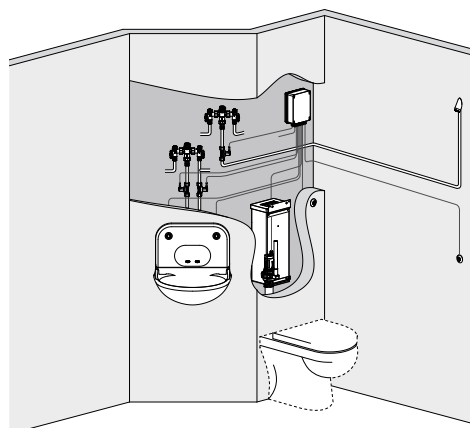
LOW RISK ENSUITE PACKAGES



« Package 3 -
Low Risk excl. shower

Package 3 includes:

- 1 x Washroom control system
- 1 x TMV3 Thermostatic mixing valve
- 2 x Solenoid valves
- 1 x High security backplate
- 1 x High security basin
- 1 x WC Anti-vandal wave-on sensor
- 1 x WC Flushvalve
- 1 x Concealed cistern kit
- 1 x Twyford Galerie ceramic WC pan



« Package 4 -
Low Risk incl. shower

Package 4 includes:

All of Package 3 plus:

- 1 x Shower sensor for showerhead
- 1 x Anti-ligature showerhead
- 1 x Additional TMV3 mixing valve
- 1 x Additional solenoid valve

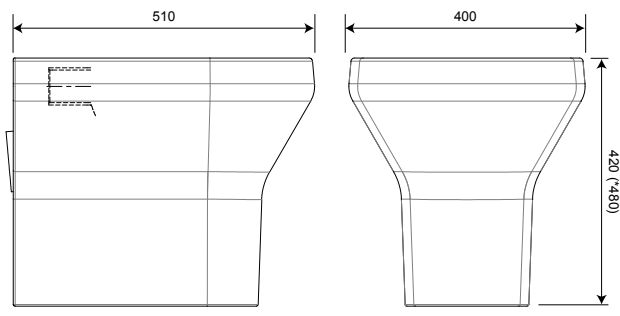
⊖ Dashed Outline = Low Risk Twyford Sanitaryware

△ Fixing Notes: All packages come complete with 70mm fixing kits. For other options please call our customer service team.

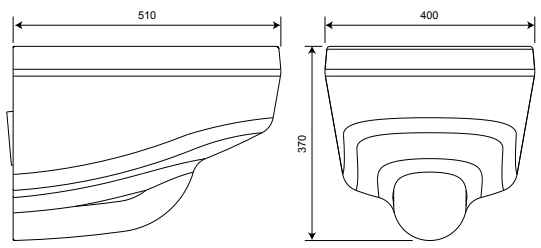
Typical installation diagrams are intended as a guide only. Appropriate regulations should be adhered to.

Dimensions

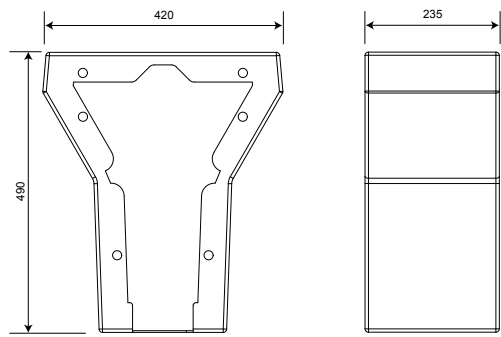
HIGH SECURITY SANITARYWARE



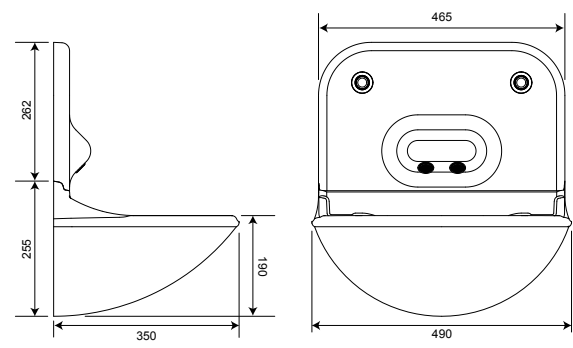
VR01-010 - High security WC pan



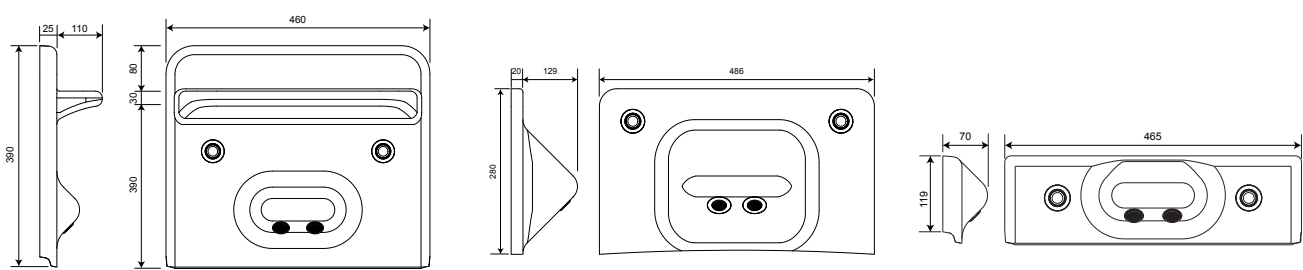
VR01-017 - High security Wall Hung Pan



VR01-012
Disabled WC pan white enameled steel spacer box
(for use with high security disabled WC pan only)



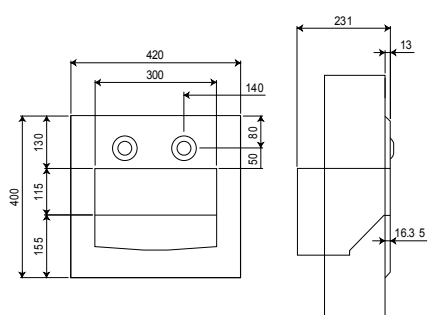
VR01-005
High security basin and backplate



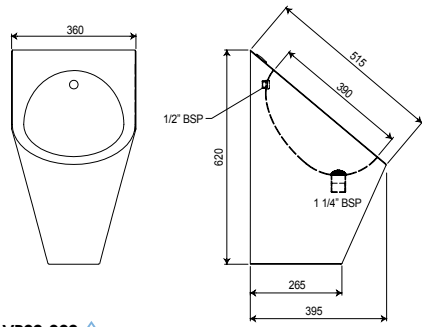
VR01-004
High security backplate with shelf

VR01-023
High security backplate for Spectrum basin

VR01-003
High security backplate for use with high security basin (VR01-001)



VR02-001
Electric Handrinse

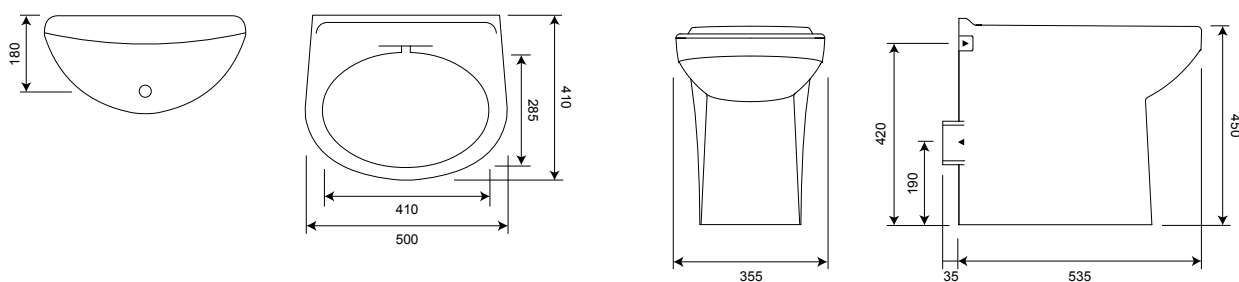


VR02-002
Urinal Bowl

Please note: Illustrations not to scale

Dimensions

LOW SECURITY SANITARYWARE



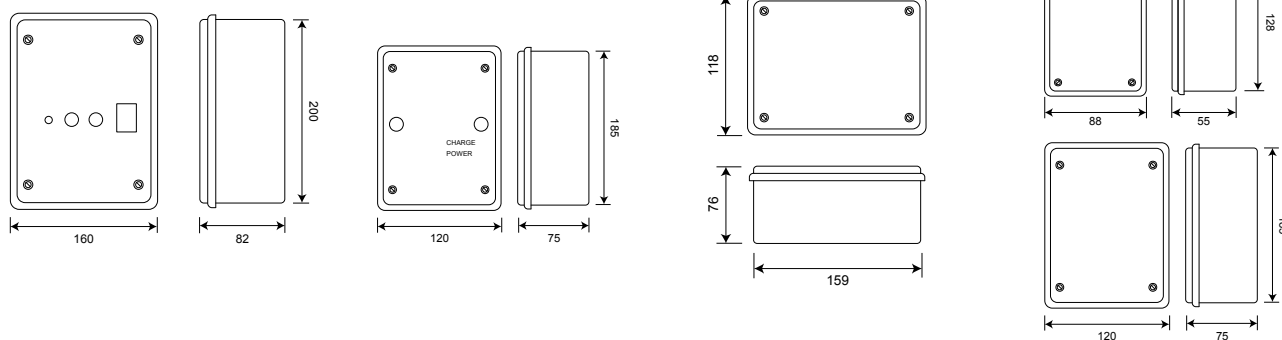
SW00-009

Sola Spectrum 500 - Washbasin (available with no tap holes only)

SW00-002

Avalon - Rimless BTW WC pan

CONTROL SYSTEMS AND SENSORS



VR07-002

Washroom control system

Mains cable length: 1.5m

WC00-010

Control box (PCB) for prison flushvalves

Mains cable length: 1.5m

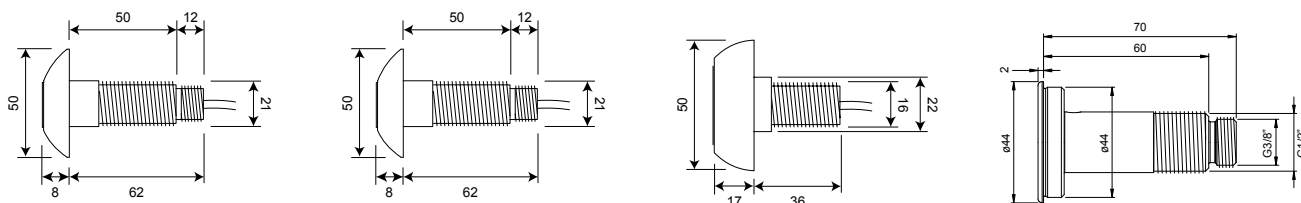
AT07-001

Tap control system - Mains

AT07-002 (Top)

AT07-003 (Bottom)

2 Channel tap control box - Battery



AC00-040 (blue insert)

AC00-041 (red insert)

Anti-vandal wave-on sensor with 50mmø bezel

Cable length: 3m

Fixing: 1/2" BSP
Fixing for extension: 3/8" BSP
(22mmø clearance drill hole)

AC00-046 (blue insert)

AC00-047 (red insert)

Tactile switch with 50mmø bezel

Cable length: 3m

Fixing: 1/2" BSP
Fixing for extension: 3/8" BSP
(22mmø clearance drill hole)

SH00-001

Wave-on sensor with 50mmø bezel

Cable length: 8m

Fixing: 3/8" BSP
(22mmø clearance drill hole)

VR00-001

Wave-on sensor for backplates with Blue insert (C) 3m cable

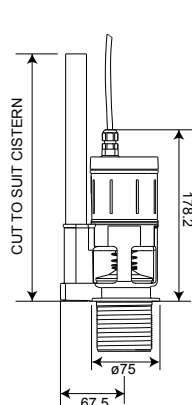
VR00-002

Wave-on sensor for backplates with Red insert - (H) 3m cable

Please note: Illustrations not to scale

Dimensions

WC FLUSHING AND OTHER ACCESSORIES

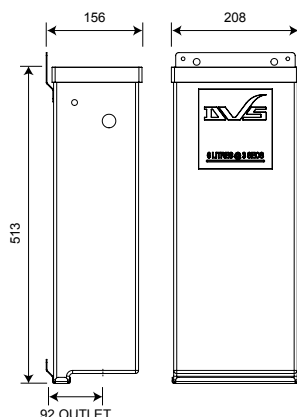


WC02-023

WC Flushvalve

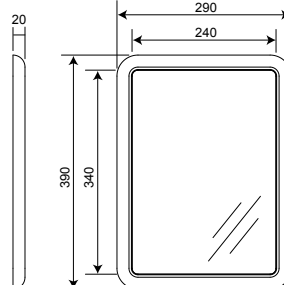
Cable length: 3m

Fixing: Standard 1 1/2" (2" available)



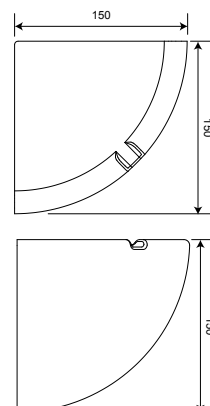
WC02-004

Concealed plastic cistern - Vertical



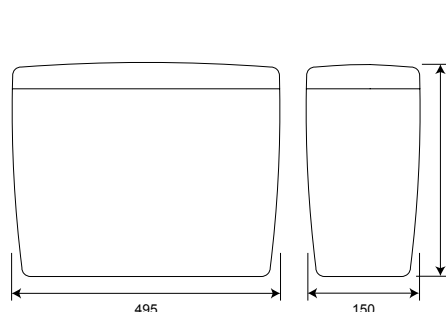
VR01-025

High security mirror



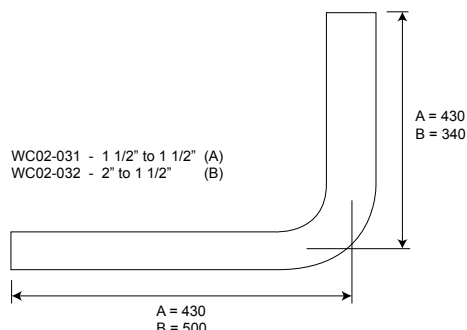
VR01-026

Corner high security soap dish



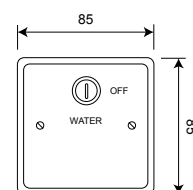
WC02-001

Concealed plastic cistern



WC02-031 (A) / WC02-032 (B)

Flushpipes

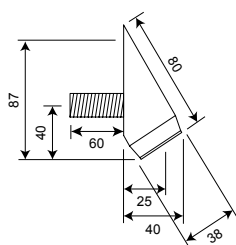


AC04-016

Water control key switch for washroom control box

Fixing: Screw fix

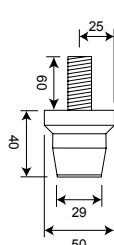
SHOWERHEADS AND NOSSLES



SH07-040

30° High security WM showerhead

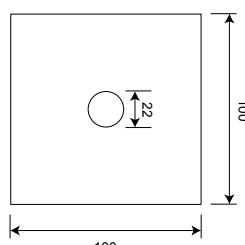
Fixing: 1/2" BSP
(22mmø clearance drill hole)



SH07-042

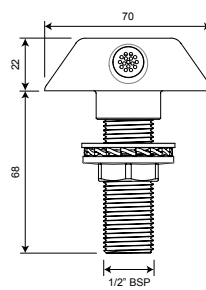
Ceiling mounted high security showerhead

Fixing: 1/2" BSP
(22mmø clearance drill hole)



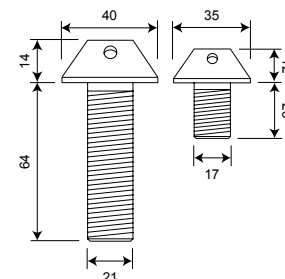
SH07-052

Fixing plate for ceiling mounted high security showerhead



AT07-056

High security deck mounted spout



AT07-055 and AT07-054

High security stainless steel tap nozzles. Basin mounted (left) or stainless steel mounted (right)

D629 Fixing: 1/2" BSP
D629/SS Fixing: 3/8" BSP
Extension Fixing: 1/2" BSP

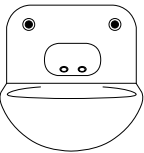
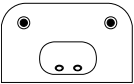

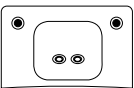
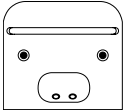
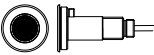

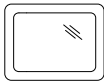
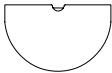


Please note: Illustrations not to scale

SAFE ENSUITES

Individual Safe Ensuite Products

⚠ **Please Note:** Fixing kits for high security sanitaryware and extensions for showerheads and sensors need to be specified below separately, due to possible variations in wall thicknesses across installation locations.

Sanitaryware

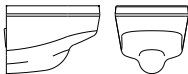

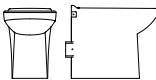
| Profile (Not to scale) | Code | Description |
|---|----------|---|
|  | VR01-005 | High security basin and backplate (not including sensors) |
| | VR01-001 | High security basin only (without backplate) |
| | VR01-027 | Replacement rubber bung/plug for filling basin |
| | VR01-028 | Waste grid for use with DVS high security basin ⚠ Notes: Moulded soap shelves. Rear waste outlet. No overflow. Not including sensors. Includes 70mm fixing kit. Water spouts included. Push or wave-on sensors available. |
|  | VR01-002 | High security backplate (not including sensors) ⚠ Notes: For use with VR01-001 high security basin only. Not including sensors. Includes 70mm fixing kit. Water spouts included. Push or wave-on sensors available. |
|  | VR01-003 | High security backplate (not including sensors) ⚠ Notes: For use with VR01-001 high security basin only. Not including sensors. Includes 70mm fixing kit. Water spouts included. Push or wave-on sensors available. |
|  | VR01-023 | High-security basin filling backplate (not including sensors) |
| | VR01-024 | High-security bath filling backplate (not including sensors) ⚠ Notes: Not including sensors. Includes 70mm fixing kit. Water spouts included. Push or wave-on sensors available. |
|  | VR01-004 | Extended high security backplate with moulded shelf (not including sensors) ⚠ Notes: For use with VR01-001 high security basin only. Not including sensors. Includes 70mm fixing kit. Water spouts included. Push or wave-on sensors available. |
|  | VR00-002 | Wave-on sensor for backplates with Red Insert (Hot) - c/w 3m cable |
| | VR00-001 | Wave-on sensor for backplates with Blue Insert (Cold) - c/w 3m cable |
| | VR00-006 | Push sensor for backplates with Red Insert (Hot) - c/w 3m cable |
| | VR00-005 | Push sensor for backplates with Blue Insert (Cold) - c/w 3m cable |
|  | VR00-006 | Basin/backplate fixing kit for 100mm wall thickness |
| | VR01-007 | Basin/backplate fixing kit for 150mm wall thickness |
| | VR01-008 | Basin/backplate fixing kit for 250mm wall thickness ⚠ Notes: The above fixing kits contain all fixings required for basin, sensors and water inlets. |
|  | VR01-025 | High security mirror with white moulded frame |
| | VR00-010 | Structural adhesive for securing mirrors and soap dishes ⚠ Notes: Unbreakable mirror. Matches other high security sanitaryware product range. |
|  | VR01-026 | High security soap dish |
| | VR00-010 | Structural adhesive for securing mirrors and soap dishes |
|  | VR01-010 | High security WC pan |
| | VR01-011 | Disabled high security WC pan (60mm higher) |
| | VR01-013 | High security WC pan side in-fill c/w- Left side |
| | VR01-014 | High security WC pan side in-fill c/w- Right side |
| | VR01-012 | Disabled WC pan white enameled steel spacer box |
| | VR01-022 | WC pan fixing kit for 70mm wall thickness |
| | VR01-019 | WC pan fixing kit for 100mm wall thickness (standard supplied with WC pan) |
| | VR01-020 | WC pan fixing kit for 150mm wall thickness |
| | VR01-021 | WC pan fixing kit for 250mm wall thickness |
| | VR01-016 | WC Seat retrofit kit option |
| | VR01-015 | High security WC Pan c/w WC seat pre-fitted ⚠ Notes: The above fixing kits contain all fixings required for WC pan. |
|  | VR02-001 | Stainless Steel Electric Hand Rinse |
| | VR02-002 | Stainless Steel Urinal |

SAFE ENSUITES

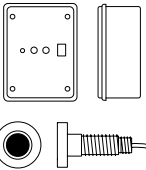
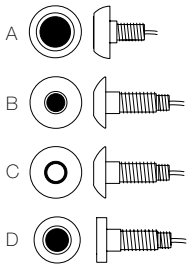


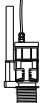
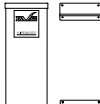
Ceramics

All the ceramics shown are vitreous china built to BS 3402 standards.

Sanitaryware (continued)

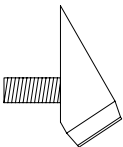
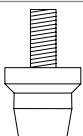

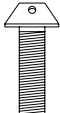

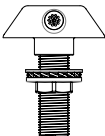

| Profile (Not to scale) | Code | Description |
|---|------------------------------------|--|
|  | VR01-017 | High security wall hung pan |
|  | SW00-009 SW00-010 | Twyford Sola Spectrum 500 - Washbasin with no tap holes Twyford Sola Spectrum 500 - Basin fitting kit Notes: Very low risk option. |
|  | SW00-002 SW00-001 | Twyford Avalon - Rimless Back-to-wall (BTW) WC pan Twyford Avalon - Seat and cover (or rim only) - Various seat covers available Notes: Very low risk option. Washdown action with box flushing rim. Horizontal outlet. Fully concealed plumbing. |

Control Systems, Sensors and WC Flushing


| Profile (Not to scale) | Code | Description |
|---|------------------------------------|---|
|  | VR07-004 | Standard washroom control system kit - For use with DVS high security backplates 2" |
| | VR07-003 | Washroom control system kit - Domed Head sensor when backplates are not used 2" |
| | VR07-002 | Washroom control system - Control box only |
| | AT07-001 | Tap control system for 1 or 2 taps (control box only) |
| | AC17-009 | Plastic valve (12v DC) with 3m cable and spade connectors |
| | PP00-100 | Tap control system fuse - Primary - 20mm Glass 240V (T)100mA |
| | PP00-101 PP00-102 | Tap control system fuse - Secondary - TR5 (F)500mA Replacement fuse for washroom control system - 20mm Glass (T) 125mA Notes: Standard kit includes 1 x Control box, 1 x WC Flushvalve, 3 x Wave-on sensors (1 for WC, 2 for basin), 2 x Solenoid valves for tap control plus connection wires @ 3m. The kit does not include a sensor for shower operation. |
|  | SH00-001 | (A) Wave-on shower sensor with 50mmø chrome bezel c/w 8m cable |
| | AC02-041 | (B) Anti-vandal wave-on WC sensor with 50mmø s/st bezel - Red Insert (Hot) c/w 3m cable |
| | AC02-040 | (B) Anti-vandal wave-on WC sensor with 50mmø s/st bezel - Blue Insert (Cold) c/w 3m cable |
| | AC02-047 | (C) Tactile switch with 50mmø s/st bezel - Red Insert (Hot) c/w 3m cable |
| | AC02-046 | (C) Tactile switch with 50mmø s/st bezel - Blue Insert (Cold) c/w 3m cable |
| | SH00-002 | Wave-on shower sensor with 50mmø chrome bezel c/w 3m cable |
| | AC02-043 | Anti-vandal wave-on sensor with 50mmø Blue Insert (Cold) c/w 15m cable |
| | AC02-044 | Anti-vandal wave-on sensor with 50mmø Red Insert (Hot) c/w 15m cable |
| | AC02-049 | Tactile switch with 50mmø s/st bezel and Blue Insert c/w 15m cable |
| | AC02-050 | Tactile switch with 50mmø s/st bezel Red Insert (Hot) c/w 15m cable |
|  | VR00-001 | (D) Wave-on sensor for backplates with Blue Insert (Cold) c/w 3m cable |
| | VR00-003 | (D) Wave-on sensor for backplates with Blue Insert (Cold) c/w 15m cable |
| | VR00-004 | (D) Wave-on sensor for backplates with Red Insert (Hot) c/w 15m cable |
| | VR00-007 | (D) Push sensor for backplates with Blue Insert (Cold) c/w 15m cable |
| | VR00-008 | (D) Push sensor for backplates with Red Insert (Hot) c/w 15m cable Notes: Includes bezels. All suitable for use with the washroom control system. |
|  | AC02-056 | Sensor thread extension for 100mm wall thickness |
| | AC02-057 | Sensor thread extension for 150mm wall thickness |
| | AC02-058 | Sensor thread extension for 250mm wall thickness |
|  | WC01-023 | Flushvalve with in-built overflow (valve only) - 2" base |
|  | WC02-014 | Concealed Plastic Cistern - Vertical - 2 kit Notes: Kit Includes cistern, fixing plates, torbeck valve, flushpipe and fittings for back of pan. |

SAFE ENSUITES

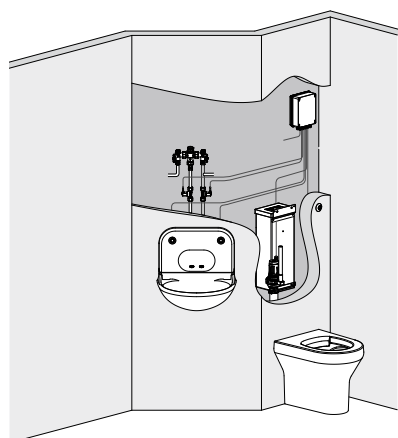
Showerheads and Accessories

| Profile (Not to scale) | Code | Description |
|---|--|--|
|  | SH07-040 SH00-021 | High security showerhead - 30° (80mm long from top) Replacement loose white rings for the above showerheads △ Notes: Wall mounted. Substantially reduced ligature risk. Standard finish is brushed stainless steel. Polished finish also available. High security showerheads come standard with 60mm 1/2" BSP fixing thread. |
|  | SH07-042 SH00-021 | High security showerhead - Ceiling mounted Replacement loose white rings for the above showerheads △ Notes: Ceiling mounted. Substantially reduced ligature risk. Standard finish is brushed stainless steel. Polished finish also available. High security showerheads come standard with 60mm 1/2" BSP fixing thread. |
|  | SH07-052 (A) SH07-041 (B) | Backplate for securing SH07-042 ceiling mounted showerhead Square fixing plate suitable for SH07-042, shower sensor and blending valve adjuster △ Notes: Standard finish is brushed stainless steel. |
|  | AT07-055 | High security tap nozzle - Basin mounted △ Notes: Standard finish is brushed stainless steel. 1/2" BSP. |
|  | AT07-054 | High security tap nozzle - Stainless steel mounted △ Notes: Standard finish is brushed stainless steel. 3/8" BSP. |
|  | AT07-056 AT07-057 | High security deck mounted spout - Brushed High security deck mounted spout - Polished |
|  | AC04-018 AC04-019 AC04-017 AC04-016 | Water control key switch kit - 12v DC* Water control key switch kit - Two valve - 12v DC* Water control key switch kit for 2 channel Water control key switch (with 5m cable)** *For water isolation. Includes PSU, 15mm plastic valve(s) and leads. **Suitable for use with the washroom control system for isolating water or resetting lockouts. |

Anti-Pick Sealant

| Profile (Not to scale) | Code | Description |
|---|--|---|
|  | VR00-012 VR00-013 VR00-010 VR00-011 | Heavy duty anti-pick sealant with nuzzle - In White - 250ml (uses standard gun) Replacement nuzzle for anti-pick sealant Structural adhesive for mirrors Special twin gun (only required for structural adhesive) △ Notes: Specially formulated "white" anti-pick sealant for custodial applications. Can be applied using standard heavy duty sealant guns. The special nuzzle combines the two part sealant which is incredibly tough, adheres to most surfaces and cures in approx 3-4 hours. |

SAFE ENSUITES



Ensuite Package 1 - High Risk (excl. shower)

Ensuite package 1 includes all of the individual items listed below except non-standard fixing lengths and optional extras. If longer fixing threads are required please specify. Fixing threads are available for 150mm, 200mm and 300mm wall thickness.

Ensuite Package 1 - High Risk (excl. shower)

Description

Complete ensuite package 1 - High Risk (excluding shower) - Standard

Package Breakdown - Individual Items

| Code | Description |
|-----------------|--|
| VR01-010 | High security WC pan |
| VR01-005 | High security basin and backplate kit with in-built spouts (warm and cold water) |
| VR01-007 | Standard washroom control system kit - For use with DVS high security backplates |
| WC02-014 | Concealed tall cistern kit (2") |
| AC17-047 | DVS thermostatic mixing valve (for basin) |

Fixings and Extensions (Not included in the standard package)

| Code | Description |
|--|--|
| VR01-019 | WC pan fixing kit for 100mm wall thickness (standard supplied with WC pan) |
| VR01-020 | WC pan fixing kit for 150mm wall thickness |
| VR01-021 | WC pan fixing kit for 250mm wall thickness |
| VR01-006 | Basin/backplate fixing kit for 100mm wall thickness |
| VR01-007 | Basin/backplate fixing kit for 150mm wall thickness |
| VR01-008 | Basin/backplate fixing kit for 250mm wall thickness |
| AC02-056 | Sensor thread extension for 100mm wall thickness (for WC sensor) |
| AC02-057 | Sensor thread extension for 150mm wall thickness (for WC sensor) |
| AC02-058 | Sensor thread extension for 250mm wall thickness (for WC sensor) |
| ⚠ Notes: When ordering sensor extensions please specify for use with WC sensor. | |

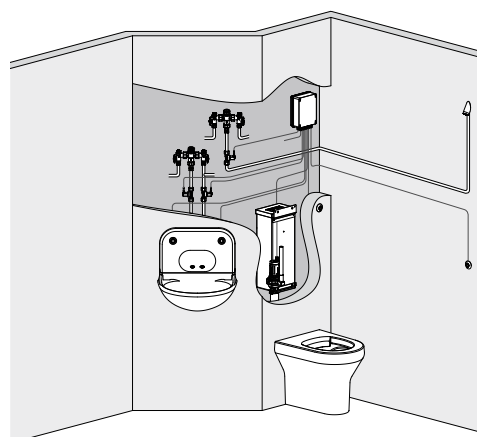
Options

| Code | Description |
|-----------------|---|
| VR01-013 | High security WC pan side in-fill - Left side |
| VR01-014 | High security WC pan side in-fill - Right side |
| VR01-011 | Disabled high security WC pan (60mm higher) |
| VR01-012 | Disabled WC pan white enameled steel spacer box |
| VR01-004 | Extended high security backplate with moulded shelf (not including sensors) |
| VR01-025 | High security mirror with white moulded frame |
| AC04-016 | Key switch for re-setting lock-outs (for Washroom Control System) |

SAFE ENSUITES

Ensuite Package 2 - High Risk (incl. shower)

Ensuite package 2 includes all of the individual items listed below except non-standard fixing lengths and optional extras. If longer fixing threads are required please specify. Fixing threads are available for 150mm, 200mm and 300mm wall thickness.



⚠ **Please Note:** Fixing extensions for showerhead and sensor need to be specified below separately due to possible variations in wall thicknesses across installation locations.

Ensuite Package 2 - High Risk (incl. shower)

Description

Complete ensuite package 2 - High Risk (including shower) - Standard

Package Breakdown - Individual Items

| Code | Description |
|----------|--|
| VR01-010 | High security WC pan |
| VR01-005 | High security basin and backplate kit with in-built spouts (warm and cold water) |
| VR01-007 | Standard washroom control system kit - For use with DVS high security backplates |
| WC02-014 | Concealed tall cistern kit (2") |
| AC17-047 | DVS thermostatic mixing valve x 2 (1 for basin and 1 for showerhead) |
| SH07-040 | Anti-ligature showerhead |
| SH00-001 | Anti-vandal shower sensor for showerhead |
| AC17-009 | Solenoid valve for showerhead |

Fixings and Extensions (Not included in the standard package)

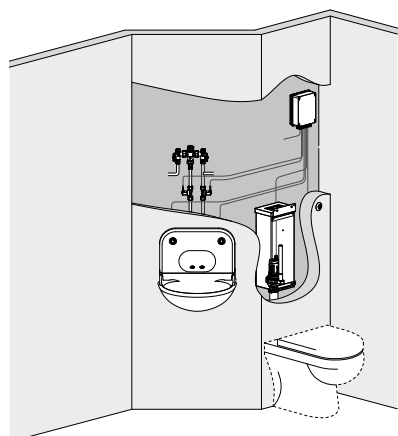
| Code | Description |
|----------|---|
| VR01-019 | WC pan fixing kit for 100mm wall thickness (standard supplied with WC pan) |
| VR01-020 | WC pan fixing kit for 150mm wall thickness |
| VR01-021 | WC pan fixing kit for 250mm wall thickness |
| VR01-006 | Basin/backplate fixing kit for 100mm wall thickness |
| VR01-007 | Basin/backplate fixing kit for 150mm wall thickness |
| VR01-008 | Basin/backplate fixing kit for 250mm wall thickness |
| AC02-056 | Sensor thread extension for 100mm wall thickness (for WC sensor, showerhead or shower sensor) |
| AC02-057 | Sensor thread extension for 150mm wall thickness (for WC sensor, showerhead or shower sensor) |
| AC02-058 | Sensor thread extension for 250mm wall thickness (for WC sensor, showerhead or shower sensor) |

⚠ **Notes:** When ordering sensor extensions please specify for use with WC sensor.

Options

| Code | Description |
|----------|---|
| VR01-013 | High security WC pan side in-fill - Left side |
| VR01-014 | High security WC pan side in-fill - Right side |
| VR01-011 | Disabled high security WC pan (60mm higher) |
| VR01-012 | Disabled WC pan white enameled steel spacer box |
| VR01-004 | Extended high security backplate with moulded shelf (not including sensors) |
| VR01-025 | High security mirror with white moulded frame |
| VR01-042 | High security ceiling showerhead |
| SH00-011 | Showerhead temperature blending valve |
| AC04-016 | Key switch for re-setting lock-outs (for Washroom Control System) |

SAFE ENSUITES



Ensuite Package 3 - Low Risk (excl. shower)

Ensuite package 3 includes all of the individual items listed below except non-standard fixing lengths and optional extras.

If longer fixing threads are required please specify. Fixing threads are available for 150mm, 200mm and 300mm wall thickness.

Ensuite Package 3 - Low Risk (excl. shower)

Description

Complete ensuite package 3 - Low Risk (excluding shower) - Standard

⚠ **Notes:** Includes standard fixing kits suitable for IPS panels. Excludes optional extras.

Package Breakdown - Individual Items

| Code | Description |
|-----------------|--|
| SW00-002 | Twyford Avalon ceramic WC pan (Includes fixings) |
| SW00-001 | Twyford Avalon - Seat and cover only |
| VR01-005 | High security basin and backplate kit with in-built spouts (warm and cold water) |
| VR07-007 | Standard washroom control system kit - For use with DVS high security backplates |
| WC02-014 | Concealed tall cistern kit (2") |
| AC17-047 | DVS thermostatic mixing valve (for basin) |

Fixings and Extensions (Not included in the standard package)

| Code | Description |
|--|--|
| VR01-006 | Basin/backplate fixing kit for 100mm wall thickness |
| VR01-007 | Basin/backplate fixing kit for 150mm wall thickness |
| VR01-008 | Basin/backplate fixing kit for 250mm wall thickness |
| AC02-056 | Sensor thread extension for 100mm wall thickness (for WC sensor) |
| AC02-057 | Sensor thread extension for 150mm wall thickness (for WC sensor) |
| AC02-058 | Sensor thread extension for 250mm wall thickness (for WC sensor) |
| ⚠ Notes: When ordering sensor extensions please specify for use with WC sensor. | |

Options

| Code | Description |
|-----------------|---|
| VR01-025 | High security mirror with white moulded frame |
| AC04-016 | Key switch for re-setting lock-outs (for Washroom Control System) |

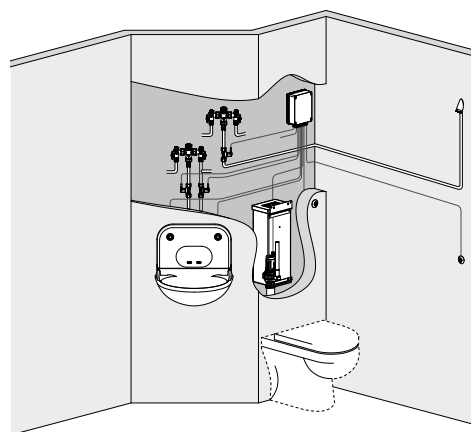
 Dashed Outline = Low Risk Twyford Sanitaryware

SAFE ENSUITES

Ensuite Package 4 - Low Risk (incl. shower)

Ensuite package 4 includes all of the individual items listed below except non-standard fixing lengths and optional extras.

If longer fixing threads are required please specify. Fixing threads are available for 150mm, 200mm and 300mm wall thickness.



⚠ Please Note: Fixing extensions for showerhead and sensor need to be specified below separately due to possible variations in wall thicknesses across installation locations.

Ensuite Package 4 - Low Risk (incl. shower)

Description

Complete ensuite package 4 - Low Risk (including shower) - Standard

⚠ Notes: Includes standard fixing kits suitable for IPS panels. Excludes optional extras.

Package Breakdown - Individual Items

| Code | Description |
|----------|--|
| SW00-002 | Twyford Avalon ceramic WC pan (Includes fixings) |
| SW00-001 | Twyford Avalon - Seat and cover only |
| VR01-005 | High security basin and backplate kit with in-built spouts (warm and cold water) |
| VR07-004 | Standard washroom control system kit - For use with DVS high security backplates |
| WC02-014 | Concealed tall cistern kit (2") |
| AC17-047 | DVS thermostatic mixing valve x 2 (1 for basin and 1 for showerhead) |
| SH07-040 | Anti-ligature showerhead |
| SH00-001 | Anti-vandal shower sensor for showerhead |
| AC17-009 | Solenoid valve for showerhead |

Fixings and Extensions (Not included in the standard package)

| Code | Description |
|----------|---|
| VR01-006 | Basin/backplate fixing kit for 100mm wall thickness |
| VR01-007 | Basin/backplate fixing kit for 150mm wall thickness |
| VR01-008 | Basin/backplate fixing kit for 250mm wall thickness |
| AC02-056 | Sensor thread extension for 100mm wall thickness (for WC sensor, showerhead or shower sensor) |
| AC02-057 | Sensor thread extension for 150mm wall thickness (for WC sensor, showerhead or shower sensor) |
| AC02-058 | Sensor thread extension for 250mm wall thickness (for WC sensor, showerhead or shower sensor) |

⚠ Notes: When ordering sensor extensions please specify for use with WC sensor.

Options

| Code | Description |
|----------|---|
| VR01-025 | High security mirror with white moulded frame |
| SH07-042 | High security ceiling showerhead |
| SH00-011 | Showerhead temperature blending valve |
| AC04-016 | Key switch for re-setting lock-outs (for Washroom Control System) |

 Dashed Outline = Low Risk Twyford Sanitaryware

HEALTHCARE

HTM & HBM COMPLIANT



A comprehensive range of products designed with healthcare in mind. Selection of the correct products has been shown to increase hand washing compliance and reduce cross contamination as well as offering water saving benefits.



No-touch products reduce the risk of cross contamination.



The problem of healthcare acquired infection is high on the agenda of the Department of Health. There is increasing recognition of the problems and the associated costs. Hand hygiene is central to reducing the impact on staff, patients and trusts.

HEALTHCARE

No-touch products have been identified by the NHS as offering significant benefits subject to the reliability of the specified products. Dart Valley Systems have achieved extremely high levels of reliability and value for money. Many building guidelines (HBN's) recommend 'no-touch' taps and WC Flushvalves.

The HPA and DOH acknowledge that no-touch taps reduce the risk of cross contamination. DVS believe that the ease of use also encourages handwashing thus increasing compliance.

WATER CONSERVATION

Dart Valley Systems have seen dramatic reductions achieved in water bills and with fast payback (even in healthcare applications) demonstrating a good business case for investment in water saving products. As well as providing optimum water savings DVS provide scientifically proven solutions that can assist with reduction in biofilms.

Electronic taps use the "optimum" amount of water as the taps only run when the hands are placed under the spout, limiting the water use to the precise time required and preventing taps being left running.

Typical Savings with DVS Products Include:

- ▶ Clinical automatic no-touch taps: Up to 65%
- ▶ No-touch WC Flushvalve: Up to 30%
- ▶ Electronic urinal controls: Up to 80%
- ▶ Self-closing push taps: Up to 50%

Recent trials in large hospitals showed a 65% reduction in the water used per hand wash with no-touch taps compared to lever-operated taps. The number of hand washes doubled, confirming the views that no-touch taps are so much easier to use and encourage hand-washing.

Even for retro-fit, where the original taps have to be removed, payback on water savings alone can be as short as three years.

NO-TOUCH AUTOMATIC TAPS

Hygiene

Automatic taps are the most hygienic option available for hand washing. This is a very important aspect for all washrooms, but of increased importance for hospitals where cross-contamination needs to be avoided.

Reliability

DVS automatic taps have been extensively developed and tested to achieve the current high levels of reliability.

James Paget Hospital commented "Dart Valley Systems' automatic taps have been totally reliable and are good value for money. Whilst the main consideration is hygiene to avoid cross contamination, automatic taps also make significant savings on water".

James Paget Hospital now have over 600 taps and have experienced outstanding performance from DVS taps. The hospital is also the most water efficient in their sector, medium acute outside London.

Water Quality

DVS designs offer optimum solutions to help maintain bacteria free water. Options available include automatic purging to avoid deadlegs and stagnant water, and thermal shock disinfection. Copper tails for taps can be provided if preferred to flexible connections. DVS have however carried out scientific evaluation at Plymouth University and recommend PEX lined hoses.

Major clients include:

Dart Valley Systems has a strong NHS client base, including:

- | | |
|--|--|
| ▶ Cambridge University NHS Foundation Trust | ▶ Wye Valley NHS Trust |
| ▶ Heart of England NHS Foundation Trust | ▶ Invicta Community Care Trust |
| ▶ Blackpool, Fylde and Wyre Hospitals NHS Foundation Trust | ▶ James Paget University Hospitals NHS Foundation Trust |
| ▶ Royal Cornwall Hospitals Trust | ▶ University Hospitals Coventry and Warwickshire NHS Trust |
| ▶ Dorset County Hospital NHS Foundation Trust | ▶ University Hospitals of Morecambe Bay NHS Foundation Trust |
| ▶ Hull and East Yorkshire Hospitals NHS Trust | ▶ Wrightinton, Wigan and Leigh NHS Foundation Trust |
| ▶ Royal Brompton and Harefield NHS Foundation Trust | ▶ Buckinghamshire Healthcare NHS Trust |

Designed with healthcare environments in mind, the AquariTherm™ tap meets the needs of challenging infection control environments alongside those of FM teams.

NEW AQUARITHERM™ TAP

Designed with healthcare environments in mind, the AquariTherm™ collection combines infection control features, simple isolation for quick and easy servicing and a stylish aesthetic, meeting the needs of healthcare professionals and technical support staff.

The patented* isolation feature allows the tap to be removed from the wall without the removal of panels, and exchanged with a spare tap to ensure that tap stations are always functional, as well as reducing ward-based service times for facilities teams. The easy to access in-line filter and thermostatic mixing valve can then be serviced quickly and easily away from the ward with minimal disruption.

As well as unique servicing features, the AquariTherm™ tap is designed for easy day-to-day cleaning and use.

The AquariTherm™ tap is available in either automatic or manual specification, making it ideal for a range of healthcare applications. The automatic specification offers a no-touch solution, incorporating an ergonomic integrated downward facing sensor with adjustable range as well as an automatic purge facility.

Both the manual and automatic models include a mechanism to ensure that any hot water is mixed before being delivered to the users' hands, ensuring that there is no 'hot spike' effect when placing hands under the tap. Additionally, the tap body stays cool during use, even with prolonged hot running water.

Features

- ▶ No-touch or manual operation models available
- ▶ Ergonomic, easy to clean surfaces
- ▶ Quick and easy to service in location
- ▶ Surface area remains cool
- ▶ Simple filter exchange and cleaning
- ▶ Adjustable sensing range
- ▶ Automatic purge facility

Manual

- ▶ HTM 64 Compliant
- ▶ Tap body DZR Brass
- ▶ Ergonomic with easy clean surfaces
- ▶ Tap handle positioned further from the wall than other healthcare taps
- ▶ Quick and easy to service
- ▶ No hot surface area
- ▶ Easy removable filters & check valves for servicing



AT04-001 
No-touch AquariTherm™



MT04-001 
Manual AquariTherm™

No-Touch

- ▶ HTM 64 Compliant
- ▶ Tap body DZR Brass
- ▶ Ergonomic with easy clean surfaces
- ▶ Quick and easy to service
- ▶ No touch operation
- ▶ No hot surface area
- ▶ Adjustable sensing range
- ▶ Easy removable filters & check valves for servicing
- ▶ Downward facing sensor
- ▶ Automatic purge facility built in
- ▶ Reduced hot spikes
- ▶ Chlorination setting

*Patent Pending

HANDS-OFF APPROACH TO HEALTHCARE

There are cost-effective solutions that can make significant contributions to improving hygiene and also reducing water consumption.

A major proportion of avoidable hospital-acquired infections are transferred to the patient via the hands of carers.

The two most important aspects of improving hand hygiene are to increase the frequency and improve the effectiveness of hand washing. No-touch taps will help to achieve both of these objectives.

Dr Peter Wilson, Consultant Microbiologist, University College Hospital, London, said: "Traditionally, elbow-operated taps have been used, but some dexterity is often needed to use them properly. Many still operate taps with fingers, risking spread of pathogens. An innovative solution is the use of infrared operated taps. No physical contact with the tap is then needed and recontamination is avoided. Provided they are reliable, these should reduce cross-infection, particularly in the intensive care unit. The Health Building Note (Number 57) recommends that these taps be installed in all intensive care units."

James Paget University Hospitals NHS Foundation Trust is one of the hospitals that has recognised the benefits, and has now installed over 600 no-touch taps. The initiative has been keenly supported by the infection-control team, and Linda Hawtin, Clinical Specialist - Infection Control, stated: "From an infection-control perspective, the taps are excellent because they reduce the risk of hand contamination after washing, and they are quick to use because the water is warm immediately, therefore encouraging staff to wash their hands more often."



⚡ DVS 'no-touch' surgeon taps (Ref: AT02-053)

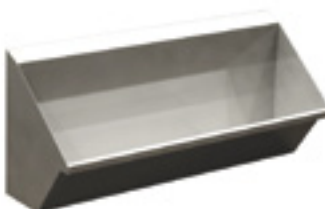
SURGEONS SCRUB-UP TROUGHS

Features include:

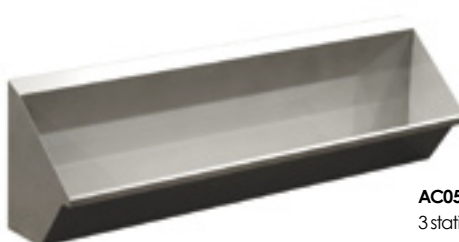
- ▶ Hygienic and vandal resistant design
- ▶ Concealed pipework
- ▶ Constructed from 316 stainless steel
- ▶ Single, 2 or 3 station designs
- ▶ Specifically designed and developed for use with DVS surgeons scrub-up automatic taps
- ▶ Pre-drilled holes for mounting taps (optional)



AC05-012 <<
Single station surgeons scrub-up trough



AC05-011 <<
2 station surgeons scrub-up trough



AC05-010 <<
3 station surgeons scrub-up trough

The Aquarius range of taps are manufactured from stainless steel, and with a solid 38mm stainless steel ingot for the head assembly.

CLINICAL AUTOMATIC TAPS

Aquarius WM Straight Tap

With its modern and simple design, the Aquarius Wall Mount tap ensures the ultimate in hygiene for the most discerning of clients.

Surgeons Scrub-Up

The Surgeons Scrub-Up tap is based on the Aquarius WM tap but has additional features designed specifically for surgeons scrub-up areas.

The tap has a longer reach and is pre-programmed to provide a longer sensing range and run-on time, meaning that surgeons can wash their hands and forearms easier and for longer.

This tap is available in three lengths, 150mm, 200mm and 250mm.

Aquarius High Neck

The Aquarius High Neck offers a clinical deck mounted solution for hand wash or scrub-up.

With its extra high body and long reach design the Aquarius High Neck makes it easier for surgeons and hospital staff to wash their hands and forearms. Its simple but unique design also makes it exceptionally easy to clean.

Aquarius WM Filter Tap

There may be certain high risk areas where point of use filters may be considered. DVS have specially designed this automatic tap to accept point-of-use filters.

Disposable water filters for taps protect against Legionella and other bacteria in the water supply.

The validated 0.2 µm filter membrane protects against Legionella spp, which are known contaminants of hospital water supplies and can lead to nosocomial infections.

Filter features:

- ▶ Quick connection
- ▶ Instant protection
- ▶ Validated 0.2 µm filter membrane
- ▶ Individually tested
- ▶ Pre-sterilised - Ready to use

AquariTherm™

- ▶ No-touch or manual operation models available
- ▶ Ergonomic, easy to clean surfaces
- ▶ Quick and easy to service in location
- ▶ Surface area remains cool
- ▶ Simple filter exchange and cleaning
- ▶ Adjustable sensing range
- ▶ Automatic purge facility



AT02-011 
WM straight - Brushed 200mm



AT02-021 
Surgeons scrub-up - Brushed 250mm




AT03-041 
High Neck - Brushed



AT02-024 
Aquarius WM with point-of-use filter - Brushed 250mm



AT04-001 
No-touch AquariTherm™

 **Notes:** Copper tails for taps can be provided if preferred to flexible connections.

MAINTAINING GOOD WATER QUALITY

Automatic Tap Purge Controller*

The automatic tap purge controller reduces maintenance and the risk of Legionella by purging the taps if they have not been operated for a predefined time.

Purge run times are adjustable and delay can be set to detect non-use between 6 hours and 15 days. Purge can be set between 5 seconds and 5 minutes. A periodic purge can be switched on or off.

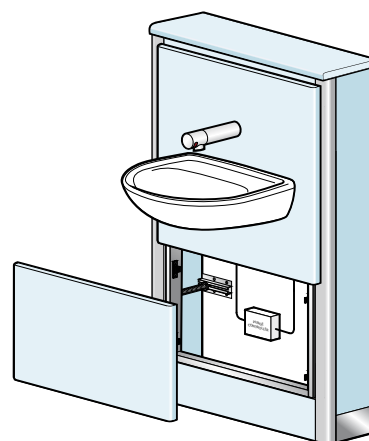
Special features:

- ▶ Simple to set up
- ▶ Saves manually running taps
- ▶ Readout monitors operations
- ▶ Easy to use
- ▶ Avoids stagnation
- ▶ Overcomes human error

*This unit is for pre 2012 taps only. All new DVS taps have a built in purge feature.



AT00-032 
Automatic tap purge controller



With Bushboard modules the purge controller can be situated out of sight and also easily accessed for timing adjustments if necessary.

READY PLUMBED MODULES



The factory built aluminium frames are engineered to provide the maximum rigidity. Access panels, sanitaryware**, cisterns and pipework are factory assembled and pressure tested prior to delivery direct to site, ensuring quality and speedy on site installation.

Fittings

'Lift off', 'push fit' and 'hinged' concealed fixings provide access for all panel specifications and ensure 'RPM' is hygienic and easy to maintain.

Plumbing

A choice of traditional copper, or plastic compression fit systems is available. Both systems are 'dry' pressure tested after assembly.

*Research carried out by QMP, an independent partnership of surveyors, architects and designers. Typical washroom layout based on the New Metric Handbook. Rates obtained from Laxtons 2003 and Spons 2002. **WCs are supplied loose for onsite fixing.

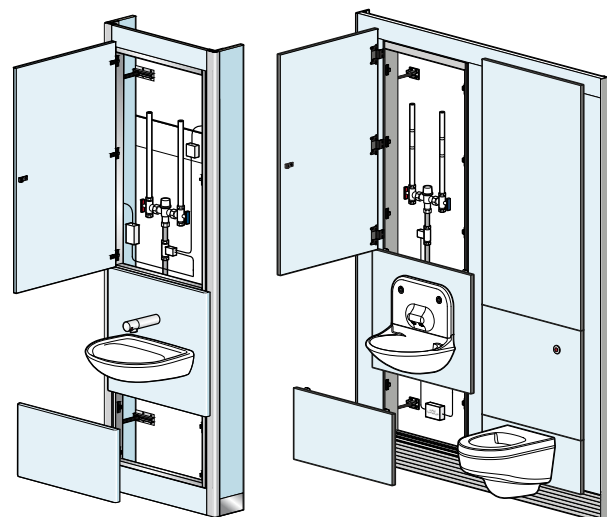
Twyford Bushboard

DVS have teamed up with specialists Twyford to help provide an easier all-round solution to purchasing complete washroom suites.

The combination of Twyford Bushboard and DVS products ensure the client obtains optimum solutions from a single source, with technical specialist support for all of the products.

Boxed out ready plumbed units are ideal for retro-fitting handwash stations.

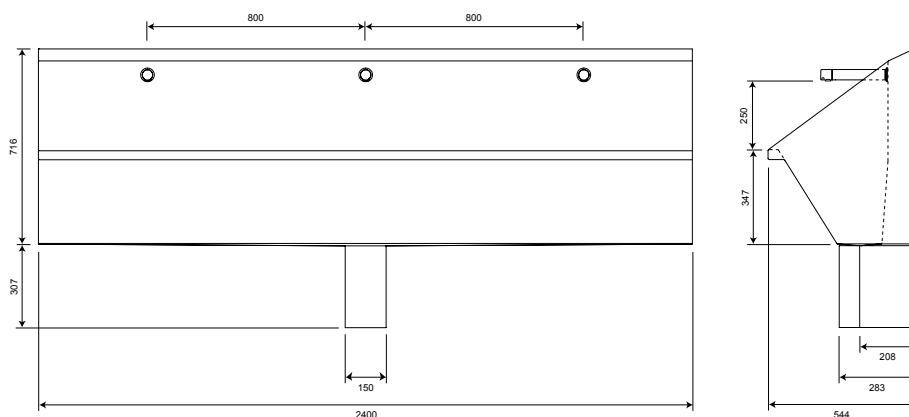
'Ready Plumbed Modules' (RPM) create new standards in washroom quality and design. Independent research comparing traditional construction methods and RPM indicate potential cost savings of up to 20% on complete installation and a reduction in installation time of 75%.*



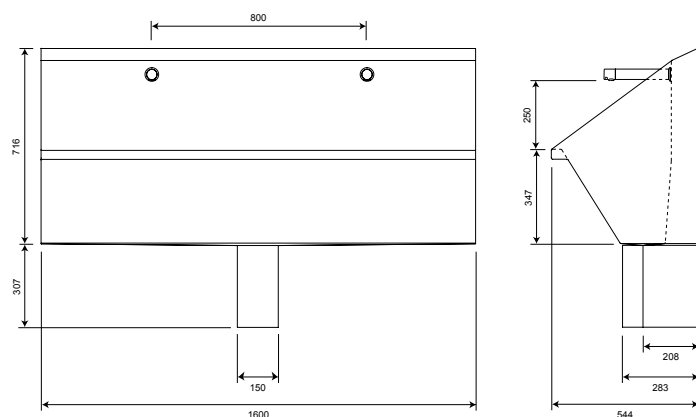
 Cabling and plumbing for DVS automatic taps and WCs can be safely hidden away and easily accessed with ready plumbed modules

Dimensions

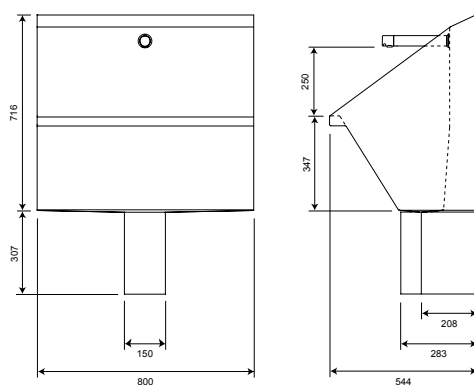
SCRUB-UP TROUGHS



AC05-010
 Scrub-up trough - 3 station - Stainless steel



AC05-011
 Scrub-up trough - 2 station - Stainless steel

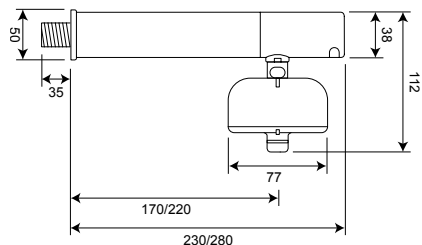


AC05-012
 Scrub-up trough - Single station - Stainless steel

Please note: Illustrations not to scale

Dimensions

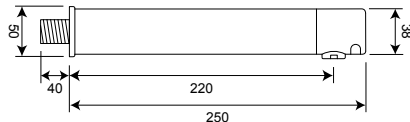
CLINICAL AUTOMATIC TAPS AND PURGE CONTROLLERS



AT02-024

Aquarius WM filter tap

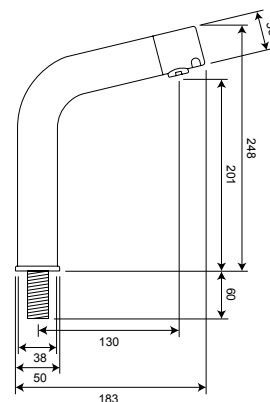
Fixing: 3/4" BSP
(28mmø clearance drill hole)
Filter and adaptor at extra cost



AT02-021

Aquarius WM Straight tap

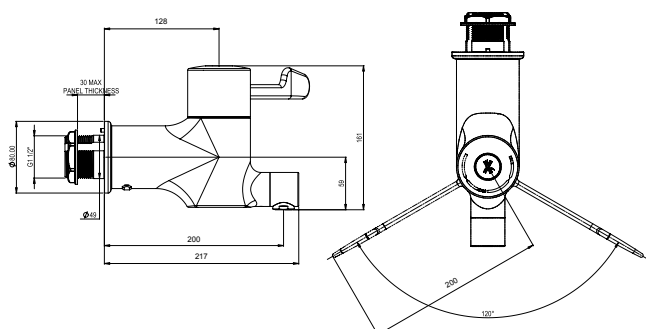
Fixing: 3/4" BSP
(28mmø clearance drill hole)



AT02-041

Aquarius High Neck tap

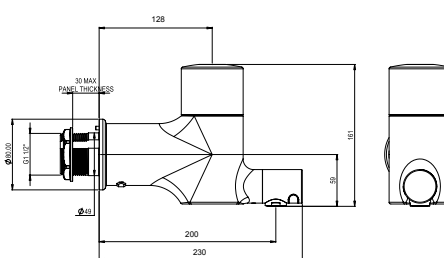
Fixing: 3/4" BSP
(28mmø clearance drill hole)



MT04-001

Manual AquariTherm™ tap

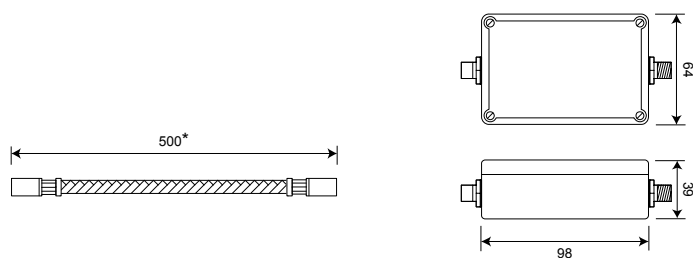
Fixing: 1 1/2" BSP
(50mmø clearance drill hole)



AT04-001

AquariTherm™ tap

Fixing: 1 1/2" BSP
(50mmø clearance drill hole)



AT00-019

Pex hose

AT00-032

Purge controller

Please note: Illustrations not to scale

HEALTHCARE

Important Note

Scrub taps have 20 seconds factory-set run-on time. These can be adjusted during manufacture, or post-installation using a hand-held controller.

Please call our team on 01803 529021 for further details.

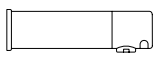
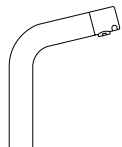
Clinical Automatic Taps

| Profile (Not to scale) | Code | Description |
|--|-----------------|---|
|  | AT02-052 | Aquarius WM straight tap spout only in S/St 150mm |
| | AT02-053 | Aquarius WM straight tap spout only in S/St 200mm |
| | AT02-054 | Aquarius WM straight tap spout only in S/St 250mm |
| | | Notes: Wall mounted. Standard finish is brushed stainless steel. Approx 200mm sensitivity range. |
|  | AT02-014 | Aquarius WM straight tap spout only in S/St 200mm filter |
| | AT02-024 | Aquarius WM straight tap spout only in S/St 250mm filter |
| | AT00-039 | PAL filter for use with Aquarius WM filter tap |
| | AT00-040 | Adaptor for PAL filters |
| | | Notes: Wall mounted. Standard finish is brushed stainless steel. Tap does not include filter or adaptor. |
| | | Notes: Above taps 230 o/a length. 280 o/a length for surgeons scrub also available |
|  | AT04-001 | Automatic AquariTherm™ spout only |
| | AT04-011 | AquariTherm™ Std Mains Kit for 1-6 bar for use with automatic spout only |
| | AT04-012 | AquariTherm™ Std Battery Kit for 1-6 bar for use with automatic spout only |
| | MT04-001 | Manual AquariTherm™ spout only |

Tap Options

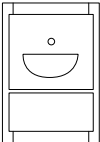
| Code | Description |
|-----------------|--|
| AT00-001 | Single station battery kit standard pressure |
| AT00-002 | Single station mains kit standard pressure |
| AT00-003 | Two station mains kit standard pressure |
| AT00-004 | Three station mains kit standard pressure |
| AT00-005 | Single station battery kit low pressure |
| AT00-006 | Single station mains kit low pressure |
| AT00-007 | Two station mains kit low pressure |
| AT00-008 | Three station mains kit low pressure |

For alternative Automatic Taps please refer to page 22

| Profile (Not to scale) | Description |
|---|--|
|  | Aquarius WM straight tap - all lengths available Notes: Wall mounted. Available in brushed or polished finish. |
|  | Aquarius High Neck tap Notes: Deck mounted. Available in brushed or polished finish. |

HEALTHCARE

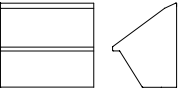
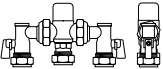
Ready Plumbed Modules

| Profile (Not to scale) | Code | Description |
|---|-----------------------|--|
|  | ON APPLICATION | Short unit with shelf, automatic tap and basin |
| | ON APPLICATION | Full height unit with automatic tap and basin |
| | | Notes: Ready plumbed modules are ideal for retro-fitting handwash stations. For special heights or hinged doors etc please contact our sales team for options. Also available with tap spout and wave-on sensors for warm and cold water. |

Purge Controllers

| Profile (Not to scale) | Code | Description |
|---|-----------------|--------------------------------|
|  | AT00-032 | Automatic tap purge controller |

Scrub-Up Troughs

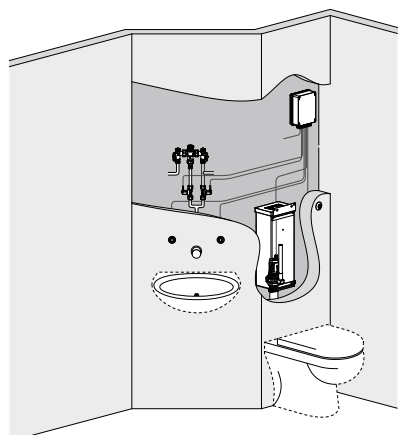
| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | AC05-012 | Stainless steel scrub-up trough - Single station - Troughs only |
| | AC05-011 | Stainless steel scrub-up trough - 2 station - Troughs only |
| | AC05-010 | Stainless steel scrub-up trough - 3 station - Troughs only |
| | | Notes: Pre-drilled holes for taps are optional, please specify |
|  | AC17-047 | Thermostatic mixing valve 4in1 - 15/22mm |



HEALTHCARE

Patient Ensuite Package 5 (excl. shower)

Ensuite package 5 includes all of the individual items listed below except non-standard fixing lengths and optional extras. If longer fixing threads are required please specify. Fixing threads are available for 150mm, 200mm and 300mm wall thickness.



Ensuite Package 5 - Patient (excl. shower)

Description

Complete Patient Ensuite Package 5 (excluding shower) - Standard

⚠ **Notes:** Includes standard Twyford fixing kits suitable for IPS panels. Excludes optional extras.

Package Breakdown - Individual Items

| Code | Description |
|-----------------|--|
| SW00-002 | Twyford Avalon ceramic WC pan (Includes fixings) |
| SW00-001 | Twyford Avalon - Seat and cover only |
| SW00-009 | Twyford Sola Spectrum 500 ceramic basin |
| SW00-010 | Twyford Sola Spectrum 500 basin fixing kit |
| AT07-048 | Aquarius WM tap spout with no electronics (200mm) |
| VR07-003 | Washroom control system kit - For when DVS high security backplates are not being used |
| WC02-014 | Concealed tall cistern kit (2") |
| AC17-047 | DVS thermostatic mixing valve (for basin) |

Fixings and Extensions (Not included in the standard package)

| Code | Description |
|-----------------|---|
| AC02-056 | Sensor thread extension for 100mm wall thickness (for WC sensor, showerhead or shower sensor) |
| AC02-057 | Sensor thread extension for 150mm wall thickness (for WC sensor, showerhead or shower sensor) |
| AC02-058 | Sensor thread extension for 250mm wall thickness (for WC sensor, showerhead or shower sensor) |

⚠ **Notes:** When ordering sensor extensions please specify for use with WC sensor.

Options

| Code | Description |
|-----------------|---|
| VR01-025 | High security mirror with white moulded frame |
| AC04-016 | Key switch for re-setting lock-outs (for Washroom Control System) |

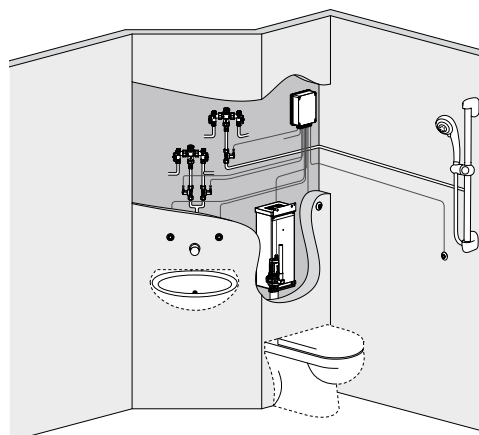
 Dashed Outline = Low Risk Twyford Sanitaryware

HEALTHCARE

Patient Ensuite Package 6 (incl. shower)

Ensuite package 6 includes all of the individual items listed below except non-standard fixing lengths and optional extras. If longer fixing threads are required please specify. Fixing threads are available for 150mm, 200mm and 300mm wall thickness.

⚠ Please Note: Fixing extensions for showerhead and sensor need to be specified below separately due to possible variations in wall thicknesses across installation locations.



Ensuite Package 6 - Patient (incl. shower)

Description

Complete Patient Ensuite Package 6 (including shower) - Standard

⚠ Notes: Includes standard Twyford fixing kits suitable for IPS panels. Excludes optional extras.

Package Breakdown - Individual Items

| Code | Description |
|----------|--|
| SW00-002 | Twyford Avalon ceramic WC pan (Includes fixings) |
| SW00-001 | Twyford Avalon - Seat and cover only |
| SW00-009 | Twyford Sola Spectrum 500 ceramic basin |
| SW00-010 | Twyford Sola Spectrum 500 basin fixing kit |
| SW00-048 | Aquarius WM tap spout with no electronics (200mm) |
| VR07-003 | Washroom control system kit - For when DVS high security backplates are not being used |
| WC02-014 | Concealed tall cistern kit (2") |
| AC17-048 | TMV3 thermostatic mixing valve x 2 (1 for basin and 1 for showerhead) |
| SH00-019 | Showerhead with rail and handset |
| SH00-001 | Anti-vandal shower sensor for showerhead |
| AC17-009 | Solenoid valve for showerhead |

Fixings and Extensions (Not included in the standard package)

| Code | Description |
|--|---|
| AC02-056 | Sensor thread extension for 100mm wall thickness (for WC sensor, showerhead or shower sensor) |
| AC02-057 | Sensor thread extension for 150mm wall thickness (for WC sensor, showerhead or shower sensor) |
| AC02-058 | Sensor thread extension for 250mm wall thickness (for WC sensor, showerhead or shower sensor) |
| ⚠ Notes: When ordering sensor extensions please specify for use with WC sensor. | |

Options

| Code | Description |
|----------|---|
| VR01-025 | High security mirror with white moulded frame |
| SH07-042 | High security ceiling showerhead |
| AC04-016 | Key switch for re-setting lock-outs (for Washroom Control System) |

 Dashed Outline = Low Risk Twyford Sanitaryware

ACCESSORIES & OTHER PRODUCTS

From the advanced 4in1 Thermostatic mixing valve to pressure and flow regulating valves, DVS offers a range of high quality valve options to compliment your washroom installation.

TMV3 THERMOSTATIC MIXING VALVES

A highly advanced TMV3 approved thermostatic mixing valve for use in basin, shower, bidet and high pressure bathfill applications (above 1 bar).

The valve is designed to control the mixed water outlet temperature to within $\pm 2^{\circ}\text{C}$ regardless of fluctuations in the temperature and pressure of the hot and cold water supplies. The valve will also shut the mixed water outlet instantly in case of hot or cold water failure (Supply conditions must remain within limits stated).

It incorporates a unique purpose-built adjuster key so that standard tools cannot be used by unauthorised persons to change the set outlet temperature.

Disclaimer: All valves should be commissioned after installation

Features include:

- ▶ Fully approved by WRAS under the TMV3 scheme to the DO8 specification for basin, shower, bidet, and high pressure bath fill applications
- ▶ Rapid thermostatic failsafe on either cold or hot supply failure protects the user from extreme temperature dangers
- ▶ Unique temperature adjuster tool prevents unauthorised tampering
- ▶ Provides extreme mixed water temperature stability under changing supply conditions
- ▶ Available in a vast selection of connection formats, including standard 15 and 22mm compression, and 15/22mm universal compression

Specifications

- | | |
|--|-------------------------|
| ▶ Factory temperature setting: | 41-43°C |
| ▶ Temperature setting range: | 38-46°C |
| ▶ Temperature, hot supply: | 52-65°C |
| ▶ Temperature, cold supply: | 5-20°C |
| ▶ Minimum hot to mix differential temperature: | 10°C |
| ▶ Temperature stability: | $\pm 2^{\circ}\text{C}$ |
| ▶ Working pressure, static: | 16 bar max |
| ▶ Working pressure: | 0.2-5 |
| ▶ Maximum pressure loss ratio: | 10:1 |
| ▶ Flow rate, minimum: | 4 lpm |
| ▶ Flow rate @ 1 bar pressure loss: | 21 lpm |

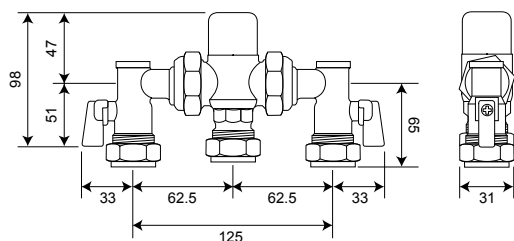


AC17-047 <<
4in1 DVS Thermostatic Mixing Valve



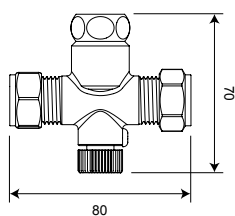
Dimensions

VALVES AND VALVE ACCESSORIES



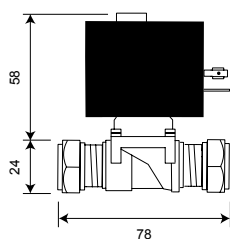
AC17-047

4in1 Thermostatic mixing valve - 15/22mm



SH00-010

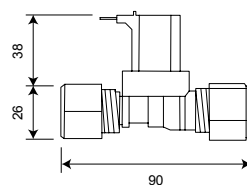
Temperature blending valve - 15mm



AC17-006

Standard 12.7mm solenoid valve

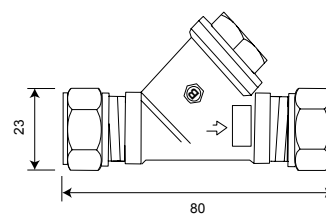
(Commonly used with DVS automatic taps) - 15mm



AC17-009

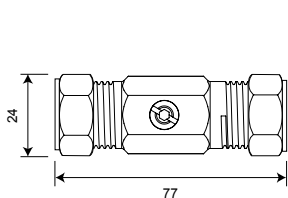
Standard plastic solenoid valve

(Commonly used with showers and DVS high security backplates) - 15mm



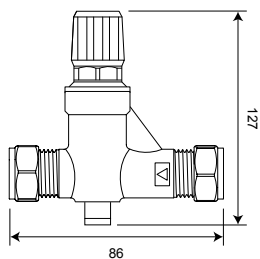
AC03-019

Y Strainer compression - 15mm



AC17-039

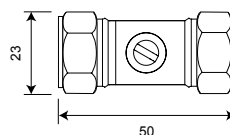
Restrictaflow valve - 15mm



AC17-045 and AC17-046

Pressure regulator

Available in 15mm or 22mm

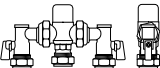
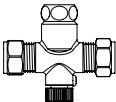
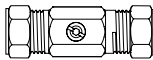
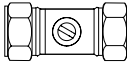
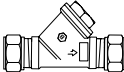
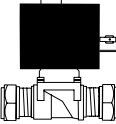

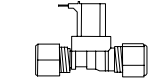
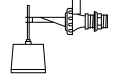
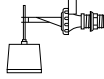
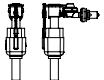
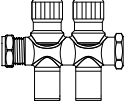
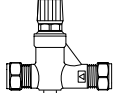


AC17-038

15mm Isolating valve - 15mm

ACCESSORIES & OTHER PRODUCTS

Valves and Valve Accessories

| Profile (Not to scale) | Code | Description |
|---|-----------------|---|
|  | AC17-048 | Thermostatic mixing valve 2in1 - 15/22mm |
| | AC17-047 | Thermostatic mixing valve 4in1 - 15/22mm △ Notes: Thermostatic mixing valves come with both 15mm and 22mm connections. |
|  | SH00-010 | Temperature blending valve - 15mm △ Notes: Should only be used where safety thermostatic mixing valves are considered unnecessary. |
|  | AC17-039 | Restrictaflow in-line flow restricting valve - 15mm |
|  | AC17-038 | Isolating valve - 15mm |
|  | AC03-019 | Standard Y-strainer compression - 15mm |
|  | AC17-001 | Standard latching valves 6v DC ASCO valve (H262601BW) 1.2mm orifice - 0-12 BAR - 15mm |
| | AC17-002 | 6v DC ASCO valve (H262602BW) 2mm orifice - 0-12 BAR - 15mm |
| | AC17-003 | 6v DC ASCO valve (H262603BW) 3.2mm orifice - 0-3 BAR - 15mm |
| | AC17-004 | 6v DC ASCO valve (H262604BW) 4mm orifice - 0-2 BAR - 15mm |
| | AC17-005 | 6v DC ASCO valve (H262605BW) 6.7mm orifice - 0-0.7 BAR - 15mm |
| | AC17-006 | 6v DC ASCO valve (SCXH210G202BW) 12.7mm orifice - 0.35-10 BAR - 15mm |
|  | AC17-007 | Special applications Please note: The Tap, Urinal, Shower and Bath range of control systems all use 3W coils 12v DC Normally closed ASCO valve 4mm orifice - 3W - 0-2 BAR - 15mm |
| | AC17-008 | 12v DC Normally closed ASCO valve 7.1mm orifice - 3W - 0-0.7 BAR - 15mm |
| | AC07-024 | 12v DC Normally closed low pressure high flow ASCO valve - 3W - 0-1 BAR - 15/22mm |
| | AC17-020 | 6v DC Low pressure high flow ASCO valve - Latching - 0-6 BAR - 15/22mm |
| | AC17-019 | 6v DC ASCO valve 19mm orifice - Latching - 0.5-8 BAR - 22mm |
| | AC17-022 | 6v DC Normally closed ASCO valve 15mm orifice - 0-8 BAR - 15mm |
|  | AC17-023 | 12v DC Normally closed ASCO valve 22mm orifice - 0.5-8 BAR - 3/4" BSP |
| | AC17-027 | ASCO Valve latcher △ Notes: Enables manual operation of solenoid valve without requiring urinal control. Useful for testing or commissioning purposes. |
|  | AC17-009 | 12v DC Plastic valve - Normally closed - For mains powered units △ Notes: 15mm, 3m wire and spade connectors incl. |
|  | WC02-033 | WRAS approved side entry valve - Individual |
|  | WC02-037 | Delayed fill float valve - Individual |
|  | AC17-051 | 2 Port push fit manifold - 3/4" x 15mm - Red |
| | AC17-052 | 2 Port push fit manifold - 3/4" x 15mm - Blue △ Notes: Inlet: 3/4" BSP. Outlet: 15mm push fit. |
|  | AC17-045 | Pressure regulator - 15mm |
| | AC17-046 | Pressure regulator - 22mm |

ADDITIONAL INFORMATION

Installation + Servicing

An experienced team of regionally based service and installation engineers allows us to offer our customers the highest standard of installation, alongside comprehensive after sales service, including commissioning.

For more information on our installation and support services or to request a visit from one of our engineers, please contact our dedicated service team on 01803 529021 or email sales@dartvalley.co.uk

Warranty Information

The majority of DVS products are covered by a 2 year warranty (subject to normal usage). For full warranty details please contact our customer service team.

Terms + Conditions of sale

Products are sold against DVS's standard terms and conditions of sale. A full set of terms and conditions can be obtained from our customer service team.

Dart Valley Systems reserves the right to make changes to the specifications of products shown in this catalogue as part of our continuous product development programme.

Price list information

Where products are supplied as kits, these generally include all main specialist components required. Standard plumbing and electrical parts such as pipes, mains wires, stop cocks, filters or spurs etc are not included except where stated.

For more information on Dart Valley Systems, including product information and case studies, please visit www.dartvalley.co.uk

For advice on product selection or technical support, call our team on 01803 529021 or email sales@dartvalley.co.uk

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