

# 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

## Features include:

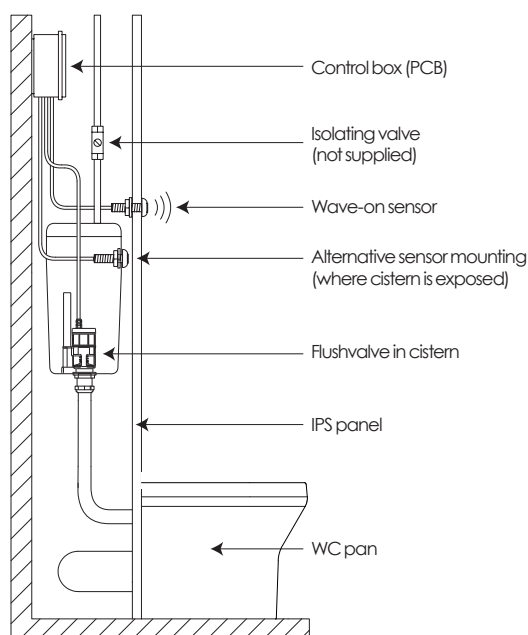
- ▶ 4.5 litre flush
- ▶ Typical 30% savings on water costs
- ▶ Adjustable for optimum flush
- ▶ Improves flush
- ▶ Ideal for disabled or elderly
- ▶ Hygienic no-touch operation
- ▶ Optional tactile operation
- ▶ Easy to install and maintain
- ▶ Fits existing and new WCs
- ▶ Vandal proof
- ▶ Eliminates 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.

## STANDARD SETUP



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

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

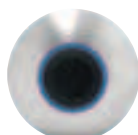
Wave-on sensors or tactile switches are available, both with either 38mmø or 50mmø bezels.



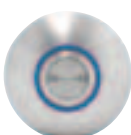
**AC02-009** Wave-on sensor with 38mmø chrome bezel



**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



### 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.

**WC00-028** Auto sensor with 63mmø chrome bezel.



### Backplates

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

**WC00-020** 80mmø chromed brass

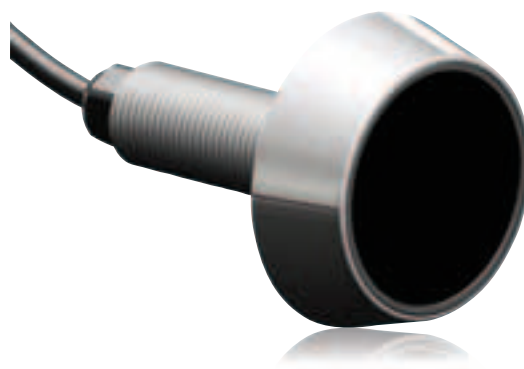
## WC FULLY AUTO FLUSHVALVE

### 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

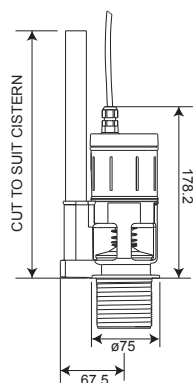
## DUAL FLUSH PLATE



**WC00-097** Dual Flush Plate

## Dimensions

### STANDARD KIT PARTS

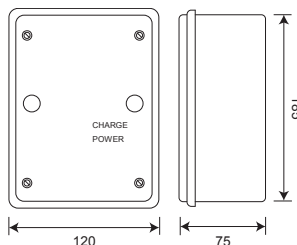


**WC01-022** ⚡

WC Flushvalve

Cable length: 3m

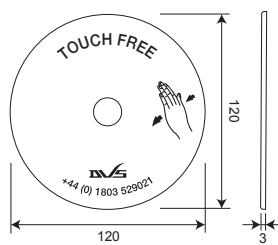
Fixing: Standard 1 1/2"  
(2" available)



**WC00-010** ⚡

Control box (PCB)

Mains cable length: 1.5m



**WC00-021** ⚡

120mm $\varnothing$  disabled back plate

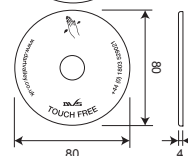
Suitable only for 16mm threaded sensors with either 38mm $\varnothing$  or 50mm $\varnothing$  bezels. If required for other sensors please enquire.



Full flush back plate  
⚡ **WC00-022**



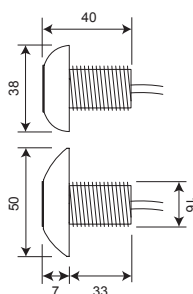
Half flush back plate  
⚡ **WC00-023**



**WC00-025** ⚡

80mm $\varnothing$  back plate

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



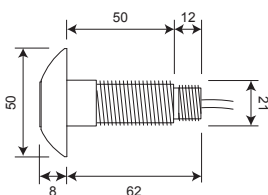
**AC02-009** ⚡

Wave-on sensors with 38mm $\varnothing$  and 50mm $\varnothing$  bezels

Cable length: 3m

Fixing: 3/8" BSP

(17mm $\varnothing$  clearance drill hole)



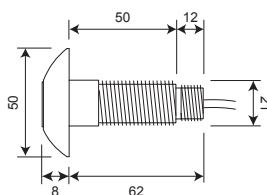
**AC02-040** ⚡

Anti-vandal wave-on sensor with 50mm $\varnothing$  bezel

Cable length: 3m

Fixing: 1/2" BSP

Fixing for extension: 3/8" BSP  
(22mm $\varnothing$  clearance drill hole)



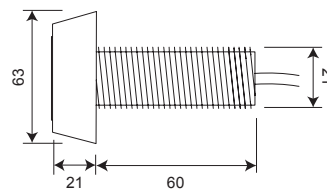
**AC02-046** ⚡

(blue insert) Tactile switch with 50mm $\varnothing$  bezel

Cable length: 3m

Fixing: 1/2" BSP

Fixing for extension: 3/8" BSP  
(22mm $\varnothing$  clearance drill hole)



**WC00-028** ⚡

AUTO sensor with 63mm $\varnothing$  bezel

Cable length: 3m

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

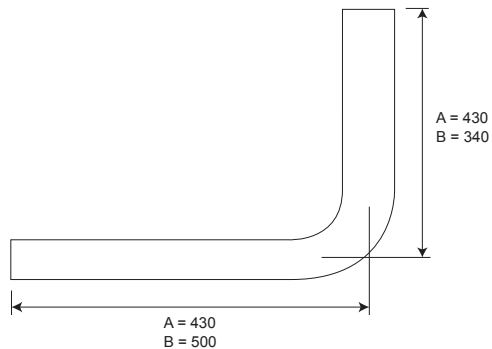
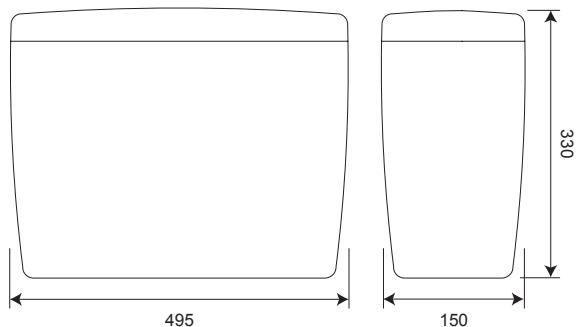
Please note: Illustrations not to scale

### Major clients include:

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

## Dimensions

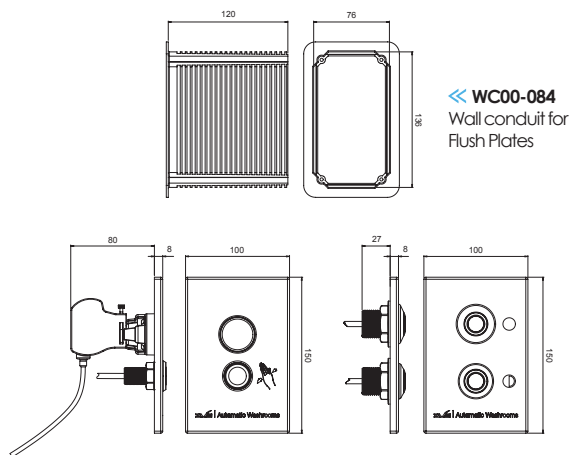
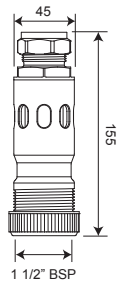
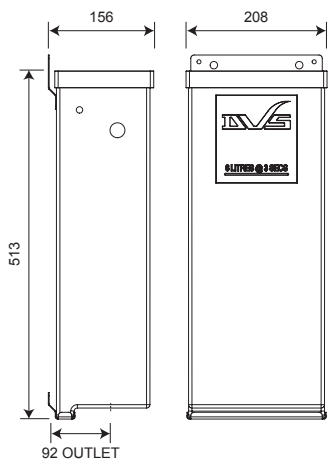
### ACCESSORIES



**WC02-001** Concealed plastic cistern

**WC02-031** 1½" x 1½" (A) Flushpipes

**WC02-032** 1½" x 2" (B) Flushpipes



**WC00-084** Wall conduit for Flush Plates

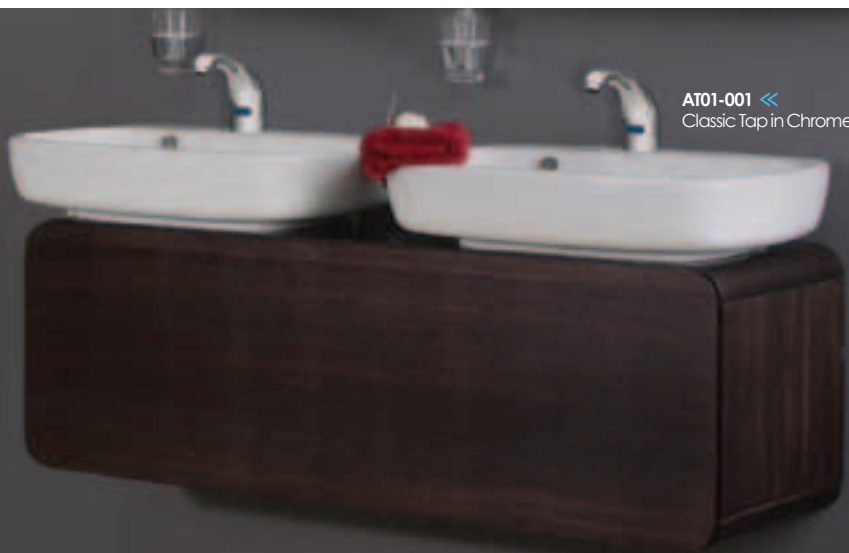
**WC02-003** Concealed plastic cistern - Vertical

**WC00-098** Air break (back flow preventer) for WC  
Fixing: 28mm inlet 38/40mm outlet.  
Reducing sets available to reduce 28mm inlet to 22mm.

**WC00-006** 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.

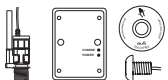
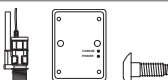
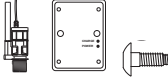



## Flushvalve Bases

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
	<b>WC03-002</b>	Standard WC Flushvalve kit with in-built overflow and wave-on sensor - 1 1/2" base
	<b>WC03-003</b>	Standard WC Flushvalve kit with in-built overflow and wave-on sensor - 2" base
	<b>WC03-012</b>	Standard WC Flushvalve kit with 50mm Chrome bezel
	<b>WC03-007</b>	Version 2 Flushvalve kit with 1 1/2" fitting base 15mtr
	<b>WC03-008</b>	Version 2 Flushvalve kit with 2" fitting base 15mtr
	<b>WC03-022</b>	WC Flushvalve kit with in-built overflow and anti-vandal wave-on sensor - 1 1/2" base
	<b>WC03-028</b>	WC Flushvalve kit with in-built overflow and tactile switch - 1 1/2" base
	<b>WC03-032</b>	Version 2 Flushvalve 1 1/2" c/w Manual Override kit (Excluding conduit kit)
	<b>WC03-040</b>	Standard WC direct flushing system kit - 220v
		<b>Δ Notes:</b> Conduit kit required for wall thicknesses up to 120mm. See page 8.
	<b>AC02-009</b>	38mm Chrome wave on sensor pack
	<b>AC02-011</b>	38mm Chrome wave on sensor pack c/w DVS back plate
	<b>AC02-010</b>	38mm Chrome wave on sensor pack 15mtr cable
	<b>AC02-012</b>	38mm Chrome wave on sensor pack 15mtr c/w DVS back plate
	<b>WC00-028</b>	Infra-red sensor for the AUTO Flushvalve (price includes bezel)
		<b>Δ Notes:</b> The AUTO version of the WC Flushvalve uses an extra sensor to detect and is used in conjunction with the kits above.
	<b>AC17-011</b>	Replacement solenoid valve for WC direct flushing system
		<b>Δ Notes:</b> The WC Flushvalve is the best option where it can be used. Kit includes air break, control box (PCB), 80mmø chrome backplate (optional) and wave-on sensor with 38mmø bezel.

## Accessories & Replacement Parts

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

# WC FLUSHING







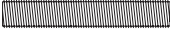

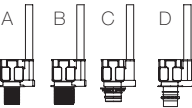
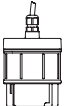
## Anti-Vandal Sensors

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





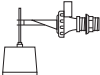



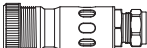
Profile (Not to scale)	Code	Description
	<b>WC00-022</b>	80mmø chrome back plate - Full flush
	<b>WC00-023</b>	80mmø chrome back plate - Half flush
	<b>WC00-021</b>	120mmø stainless steel disabled back plate (larger plate with larger type and graphics)
	<b>AC02-006</b>	50mmø stainless steel bezel for wave-on sensor
	<b>AC02-040</b> <b>AC02-046</b> <b>AC02-043</b> <b>AC02-049</b>	Anti-vandal wave-on sensor with 50mmø stainless steel bezel - Cable length 3m Tactile switch with Blue insert and 50mmø stainless steel bezel - Cable length 3m Anti-vandal wave-on sensor c/w Blue indication insert & 50mm 15mtr Tactile switch with 50mm st/steel bezel and Blue insert C 15mtr <b>▲ Notes:</b> Primarily for use in custodial applications.
	<b>WC00-006</b> <b>WC00-097</b> <b>WC00-084</b>	Manual Override Wall Fitting, Plate and Sensor for V2 WC Flushvalve Dual Flush Wall Fitting, Plate and Sensor for V2 WC Flushvalve Wall conduit for Flush Plates
	<b>AC02-060</b> <b>AC02-057</b> <b>AC02-058</b>	Sensor thread extension for 70mm wall thickness Sensor thread extension for 150mm wall thickness Sensor thread extension for 250mm wall thickness
	<b>WC01-022</b> <b>WC01-023</b> <b>WC01-025</b> <b>WC01-024</b>	Flushvalve with in-built overflow (valve only) - 1 1/2" base Flushvalve with in-built overflow (valve only) - 2" base Flushvalve with in-built overflow (valve only) - Grohe fitting base Flushvalve with in-built overflow (valve only) - Geberit fitting base
	<b>WC01-012</b> <b>WC01-013</b> <b>WC01-014</b> <b>WC01-015</b>	Flushvalve with in-built overflow (base only) - 1 1/2" base (A) Flushvalve with in-built overflow (base only) - 2" base (B) Flushvalve with in-built overflow (base only) - Geberit fitting base (C) Flushvalve with in-built overflow (base only) - Grohe fitting base (D)
	<b>WC01-002</b>	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
	<b>WC00-001</b> <b>WC00-003</b>	Flushvalve replacement stainless steel piston and spring - Suitable for all models Flushvalve replacement spring only - Suitable for all models
	<b>WC00-010</b> <b>WC00-011</b>	Control box (PCB) for WC Flushvalves Control box (PCB) for D099 - 220v
	<b>WC02-011</b> <b>WC02-012</b> <b>WC02-001</b> <b>WC02-002</b>	Concealed plastic cistern kit - 1 1/2" Concealed plastic cistern kit - 2" Concealed plastic cistern - Cistern only - 1 1/2" Concealed plastic cistern - Cistern only - 2" <b>Δ Notes:</b> Kit Includes cistern, float valve, flushpipe and fittings for back of pan.
	<b>WC02-013</b> <b>WC02-014</b> <b>WC02-003</b> <b>WC02-004</b>	Concealed plastic cistern kit - Vertical - 1 1/2" Concealed plastic cistern kit - Vertical - 2" kit Concealed plastic cistern - Vertical - Cistern only - 1 1/2" Concealed plastic cistern - Vertical - Cistern only - 2" <b>Δ Notes:</b> Kit Includes cistern, fixing plates, float valve, flushpipe and fittings for back of pan.
	<b>WC02-033</b>	WRAS approved side entry valve - Individual
	<b>WC02-037</b>	Delayed fill float valve - Individual
	<b>WC02-031</b> <b>WC02-032</b> <b>WC02-035</b>	Standard 38mm flushpipe (430 x 430) - 1 1/2" to 1 1/2" 50mm to 38mm flushpipe (340 x 500) - 2" to 1 1/2" Flushpipe connector
	<b>WC00-004</b>	Toilet tank reduction bag <b>Δ Notes:</b> Expands when placed inside cistern and saves 1 litre per flush.
	<b>WC00-098</b>	WC airbreak (back flow preventer) - 28mm inlet 38/40mm outlet