



# WC Flushing

## No-Touch WC Flushvalve

WC Flushvalve - Innovation and Technology 2000 Award Winner



No-touch WC Flushing



No-touch WC sensor with 38mmø bezel and 80mmø backplate



No-touch WC Flushvalve with Twyford Bushboard modules

## No-touch WC Flushvalve

The DVS Flushvalve 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.

### Features Include:

- 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 WC's
- Vandal proof
- Eliminates handle maintenance



D101/V2 Slimline WC Flushvalve with in-built overflow



D100 WC Flushvalve control system

## Sensors

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



D102/38 & D102 Wave-on sensor with 38mmø chrome bezel



D102/50 & D102 Wave-on sensor with 50mmø chrome bezel



D102/AV/B Wave-on sensor with 50mmø chrome bezel and blue (cold) insert



D104/50/B Tactile switch with 50mmø s/steel bezel and blue (cold) insert



D102/AUTO Auto sensor with 63mmø chrome bezel.

**Note:** If interested in this product please request a technical sheet prior to purchase.

The auto sensor is part of the D103/OF/AUTO kit. This kit uses this additional sensor to detect an occupier. If the optional manual sensor is not operated it will flush automatically. More information on this product can be found on page 4.

## 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.

## Backplates

The standard kit includes the DVS 80mmø backplate and 38mmø bezel. Chromed backplates are also available.



D105/BP 80mmø chromed brass



# WC Flushing

## No-touch WC Flushvalve

### All Toilets Benefit From DVS Flushvalves

WC Flushvalves are fitted in all types of commercial and public buildings and are also a nice feature in domestic properties. Typical installations and benefits to particular facilities are shown below.

#### Hospitals

Healthcare acquired infections are a major problem and hand hygiene is the most important aspect for reducing them. No-touch WC flushing stops hand contact with potentially contaminated handles. Ease of use for disabled and young children provides added benefits.

#### Public Toilets

Water saving is important to everybody and retro-fitting WC Flushvalves can save an enormous amount of water in busy public toilets. One of the main benefits however has proven to be the reliability and vandal proof aspects of the product. Maintenance call outs for broken handles is eliminated along with the associated costs and inconvenience.

#### Schools

The reliability, robustness and vandal proof nature of the DVS WC Flushvalve makes it an ideal choice for schools and colleges, eliminating the nuisance of term time maintenance. No-touch products reduce the spread of bacteria and water wastage.

#### Airports

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.

### WC Auto Flushvalve - Ensures toilet is flushed!

The WC Auto Flushvalve has a sensor which is mounted behind the toilet to detect a user. The standard kit also includes a manual wave-on sensor. 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.



D102/AUTO  
Auto sensor with 63mmø chrome bezel.

The WC 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.

#### Hotels

Image is important and the aesthetics and hygiene quality provided by WC Flushvalves enhances the presentation of any washroom.

#### Domestic

The WC Flushvalve works well in all bathrooms and is being used in quality new builds as well as retro-fit in individual households. It is ideal in the cloakroom, combined with no-touch taps using safe thermostatic mixed water.



### New WC Flushvalve

Our new slimmer WC Flushvalve with optional manual override is designed to fit into slimline in-wall cisterns.

The slimline valve fits in most cisterns, and there are a number of different bases to suit fitting into most existing in wall cisterns. Another addition to this new range is a manual override push button.

A dual flush is also available if required. For further information please contact our sales office.



D101/V2  
Flushvalve.

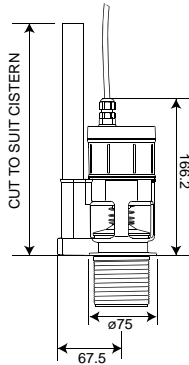


# WC Flushing

## Dimensions

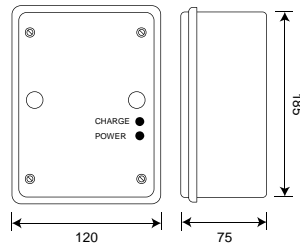
Not to scale

### WC Flushing Standard Kit Parts\*



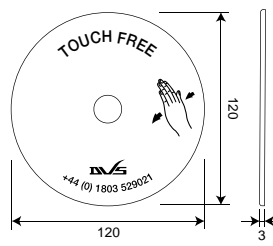
D101/V2  
WC Flushvalve

Cable length: 3m  
Fixing: Standard 1 1/2"  
(2" available)



\*D100  
Control box (PCB)

Mains cable length: 1.5m



D105/BP/DIS  
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  
D105/BP/FF

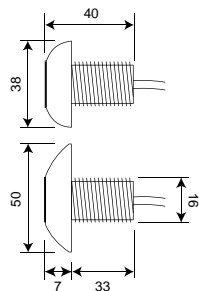


Half flush  
back plate  
D105/BP/HF



\*D105/BP  
80mm back plate

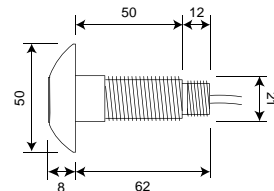
Suitable only for 16mm threaded sensors with 38mm bezels. If required for other sensors please enquire.



\*D102  
Wave-on sensors with 38mm and 50mm bezels

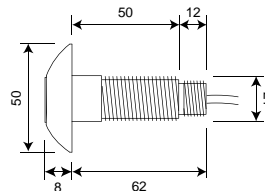
Cable length: 3m  
Fixing: 3/8" BSP  
(17mm clearance drill hole)

(Specials available @ 65mm on request)



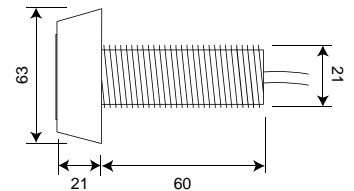
D102/AV/B (blue insert)  
Anti-vandal wave-on sensor with 50mm bezel

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



D104/50/B (blue insert)  
Tactile switch with 50mm bezel

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



D102/AUTO  
AUTO sensor with 63mm bezel  
Part of AUTO WC kit only

Cable length: 3m  
Fixing: 1/2" BSP  
(22mm clearance drill hole)



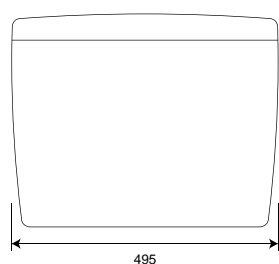


# WC Flushing

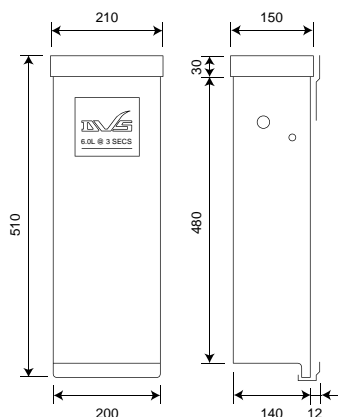
## Dimensions

Not to scale

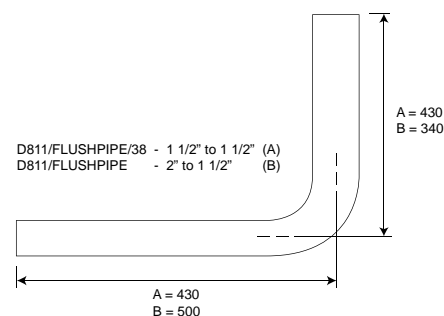
### Accessories



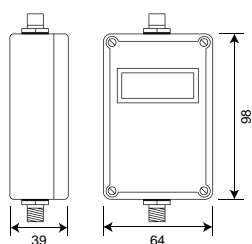
D811  
Concealed plastic cistern



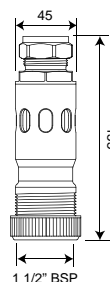
D811/TALL  
Concealed plastic cistern - Vertical



D811/FLUSHPIPE  
Flushpipes



D079  
WC flush counter



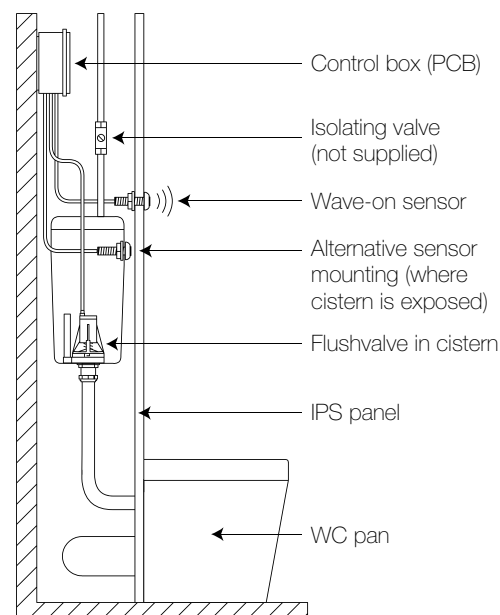
D027/WC  
Air break (back flow preventer) for WC  
Fixing: 28mm inlet 38/40mm outlet.  
Reducing sets available to reduce  
28mm inlet to 22mm.

## DVS WC Flushvalve specifications and typical installation

### Specifications

Control box dimensions:	120(w) x 185(h) x 75(d)
Control box weight:	950g
Electrical supply:	12v DC from integral transformer. Connected to 220-240 AC mains.
Valve dimensions:	122(w) x 195(h) x 95(d)
Valve weight:	792g
Connection:	Via 1 1/2" BSP fitting at the base of the body. Also available with 2" fitting at base for European connections.
Infrared sensor:	Activates when user passes hand within 50mm of sensor. More than one sensor can be fitted to give the facility of dual flushing. Can also be supplied with tactile switch if required.
Cable:	Low voltage screened cable between operating button and timing control. IP65 rated cable from Flushvalve to control box.
Fitting to existing WC's:	Retro-fitting to an existing installation is simple, using standard fittings.
Tamper resistant:	The cistern containing the flushvalve can be remotely located away from the lavatory, reducing the threat of vandalism.

### Typical Installation (Not to scale)





# 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 such as 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	Price (RRP)	DS
	D103/OF	Standard WC Flushvalve kit* with in-built overflow and wave-on sensor - 1 1/2" base	£190.00	A
	D103/OF/2	Standard WC Flushvalve kit* with in-built overflow and wave-on sensor - 2" base	£190.00	A
	D103/OF/RF	Extra option enabling remote flushing (price excludes extra sensor required)	£12.00	A
	D103/OF/50	Standard WC Flushvalve kit with 50mm Chrome bezel	£190.00	A
	D103/OF/AV	WC Flushvalve kit* with in-built overflow and anti-vandal wave-on sensor - 1 1/2" base	£199.00	A
	D103/OF/AV/2	WC Flushvalve kit* with in-built overflow and anti-vandal wave-on sensor - 2" base	£199.00	A
	D103/OF/RF	Extra option enabling remote flushing (price excludes extra sensor required)	£12.00	A
	D103/OF/TAC	WC Flushvalve kit* with in-built overflow and tactile switch - 1 1/2" base	£199.00	A
	D103/OF/TAC/2	WC Flushvalve kit* with in-built overflow and tactile switch - 2" base	£199.00	A
	D103/OF/RF	Extra option enabling remote flushing (price excludes extra sensor required)	£12.00	A
	D103/OF/PRISON	Prison WC Flushvalve kit* with in-built overflow and LOCKOUT option - 1 1/2" base	£207.00	A
	D103/OF/PRISON/2	Prison WC Flushvalve kit* with in-built overflow and LOCKOUT option - 2" base	£207.00	A
		<i>Notes: The Prison Flushvalve kit is intended for applications where the D107 Washroom Control System isn't being used. The prison kit comes with an anti-vandal sensor and additional LOCKOUT option limiting the number of flushes to 4 times in 15 minutes.</i>		
	D103/OF/AUTO	WC Flushvalve AUTO kit* with in-built overflow and additional AUTO sensor - 1 1/2" base	£270.00	A
	D103/OF/AUTO/2	WC Flushvalve AUTO kit* with in-built overflow and additional AUTO sensor - 2" base	£270.00	A
	D102/AUTO	Replacement infra-red sensor for the AUTO Flushvalve (price includes bezel)	£95.00	A
		<i>Notes: The AUTO version of the WC Flushvalve uses an extra sensor to detect an occupier and if the toilet is not manually flushed it will flush automatically.</i>		
	D099	Standard WC direct flushing system kit - 220v	£280.00	A
	D099/110V	WC direct flushing system kit - 110v	£280.00	A
	D178/NC/22/12V	Replacement solenoid valve for WC direct flushing system	£88.00	A
		<i>Notes: 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.</i>		

\*Kit Options - NO EXTRA COST options (marked \*) when part of WC Flushing kits

Profile - Not to scale	Code	Description	Price (RRP)	DS
	*D102	Standard wave-on sensor included in WC kits (price excludes bezel) - Cable length 3m Extra long cables are available, but must be specified when ordered.	£32.00	A
	D102/15EXT	Longer cable lengths come at an <b>additional cost:</b> Sensor with 15 metres cable length	£49.00	A
	*D102/38	38mmø chrome bezel for wave-on sensor - Normally used with 80mmø backplate	£6.00	A
	*D102/50	50mmø chrome bezel for wave-on sensor - Normally used on exposed cistern	£6.00	A
	*D105/BP/WAVEONDVS	80mmø chrome back plate with 'Wave-on hand and DVS logo'	£9.00	A

...continued on next page



# WC Flushing

Price Guide

## 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 D102/AV/B 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.

### \*Kit Options - EXTRA COST options for WC Flushing kits

Profile - Not to scale	Code	Description	Price (RRP)	DS
	D105/BP/WAVEON	80mmø chrome back plate with 'Wave-on hand' <i>Notes: Suitable only for 16mm threaded sensors with 38mmø bezels. If required for other sensors please enquire.</i>	£9.00	A
	D105/BP	80mmø chrome back plate - Blank <i>Notes: Suitable only for 16mm threaded sensors with 38mmø bezels. If required for other sensors please enquire.</i>	£9.00	A
	D105/BP/F	80mmø chrome back plate - Full flush with 'DVS logo' <i>Notes: Suitable only for 16mm threaded sensors with 38mmø bezels. If required for other sensors please enquire.</i>	£9.00	A
	D105/BP/H	80mmø chrome back plate - Half flush with 'DVS logo' <i>Notes: Suitable only for 16mm threaded sensors with 38mmø bezels. If required for other sensors please enquire.</i>	£9.00	A
	D105/BP/DIS	120mmø stainless steel disabled back plate (larger plate with larger type and graphics) <i>Notes: Suitable only for 16mm threaded sensors with either 38mmø or 50mmø bezels. If required for other sensors please enquire.</i>	£18.00	A
	D102/50/STST	50mmø stainless steel bezel for wave-on sensor	£8.00	A
	D102/AV/B	Anti-vandal wave-on sensor with 50mmø stainless steel bezel - Cable length 3m	£45.00	A
	D104/50/B	Tactile switch with Blue insert and 50mmø stainless steel bezel - Cable length 3m <i>Notes: Primarily for use in custodial applications.</i>	£45.00	A
	D102/AV/B/PURGE	Anti-vandal wave-on WC purge sensor with 50mmø stainless steel bezel - Cable length 3m	£64.00	A
	D102/DUAL/W/38	Wave-on dual sensor kit with 38mmø bezel - Includes extra sensor and PCB plug	£37.50	A
	D102/DUAL/W/50	Wave-on dual sensor kit with 50mmø bezel - Includes extra sensor and PCB plug	£37.50	A
	D102/DUAL/TAC/50	Tactile dual sensor kit with 50mmø bezel - Includes extra sensor and PCB plug	£45.00	A
	D102/DUAL/AV/50	Anti-vandal wave-on dual sensor kit - Includes extra sensor and PCB plug	£45.00	A
	D102/AV/EXT/70	Sensor thread extension for 70mm wall thickness	£8.00	A
	D102/AV/EXT/150	Sensor thread extension for 150mm wall thickness	£10.00	A
	D102/AV/EXT/200	Sensor thread extension for 200mm wall thickness	£12.00	A
	D102/AV/EXT/300	Sensor thread extension for 300mm wall thickness	£18.00	A

## Accessories & Replacement Parts

Profile - Not to scale	Code	Description	Price (RRP)	DS
	D101/V2	Flushvalve with in-built overflow (valve only) - 1 1/2" base	£100.00	A
	D101/V2/2	Flushvalve with in-built overflow (valve only) - 2" base	£100.00	A
	D101/V2/GRO	Flushvalve with in-built overflow (valve only) - Grohe fitting base	£100.00	A
	D101/V2/GEB	Flushvalve with in-built overflow (valve only) - Geberit fitting base	£100.00	A
	D101/V2/BASE/1	Flushvalve with in-built overflow (base only) - 1 1/2" base (A)	£20.00	A
	D101/V2/BASE/2	Flushvalve with in-built overflow (base only) - 2" base (B)	£20.00	A
	D101/V2/BASE/GRO	Flushvalve with in-built overflow (base only) - Grohe fitting base (C)	£20.00	A
	D101/V2/BASE/GEB	Flushvalve with in-built overflow (base only) - Geberit fitting base (D)	£20.00	A
	D101/V2/BODY	Flushvalve replacement body	£80.00	A



# WC Flushing

## Flushvalve Bases

Are 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 sales.

### Accessories & Replacement Parts (continued)

Profile - Not to scale	Code	Description	Price (RRP)	DS
	D101/OF/BODY (A)	Flushvalve replacement body - Suitable for overflow models only	£80.00	A
	D101/OF/BASE/1 (B)	Flushvalve replacement base - Suitable for 1 1/2" overflow models only	£20.00	A
	D101/OF/BASE/2 (C)	Flushvalve replacement base - Suitable for 2" overflow models only	£20.00	A
	D109	Flushvalve replacement stainless steel piston and spring - Suitable for all models	£14.00	A
	D109/SPRING	Flushvalve replacement spring only - Suitable for all models	£3.00	A
	D100	Control box (PCB) for WC Flushvalves	£90.00	A
	D100/DF	Control box (PCB) for D099 - 220v	£110.00	A
	D100/DF/110V	Control box (PCB) for D099/110v - 110v	£120.00	A
	D100/PRISON	Control box (PCB) for Prison Flushvalves	£110.00	A
	D100/AUTO	Control box (PCB) for AUTO WC Flushvalves	£105.00	A
	D811/KIT	Concealed plastic cistern kit - 1 1/2"	£37.00	A
	D811/KIT/2	Concealed plastic cistern kit - 2"	£41.00	A
	D811	Concealed plastic cistern - Cistern only - 1 1/2"	£22.00	A
	D811/2	Concealed plastic cistern - Cistern only - 2"	£26.00	A
			<i>Notes: Kit Includes cistern, float valve, flushpipe and fittings for back of pan.</i>	
	D811/TALL/KIT	Concealed plastic cistern kit - Vertical - 1 1/2"	£68.00	A
	D811/TALL/KIT/2	Concealed plastic cistern kit - Vertical - 2" kit	£68.00	A
	D811/TALL	Concealed plastic cistern - Vertical - Cistern only - 1 1/2"	£54.00	A
	D811/TALL/2	Concealed plastic cistern - Vertical - Cistern only - 2"	£54.00	A
			<i>Notes: Kit Includes cistern, fixing plates, float valve, flushpipe and fittings for back of pan.</i>	
	D811/VALVE	WRAS approved side entry valve - Individual	£10.00	A
	D811/FLUSHPIPE/38 (A)	Standard 38mm flushpipe (430 x 430) - 1 1/2" to 1 1/2"	£6.00	A
	D811/FLUSHPIPE (B)	50mm to 38mm flushpipe (340 x 500) - 2" to 1 1/2"	£10.00	A
	D811/PC	Back to pan connector	£1.50	A
	D073	Toilet tank reduction bag	£2.50	B
		<i>Notes: Expands when placed inside cistern and saves 1 litre per flush.</i>		
	D027/WC	WC airbreak (back flow preventer) - 28mm inlet 38/40mm outlet	£45.00	A
	D027/WC/22	Reducing set for WC airbreak inlet. Reduces 28mm inlet to 22mm	£12.00	A
	D079	WC flush counter with pre-wired float switch (battery operated)	£85.00	A
		<i>Notes: This unit counts and displays the number of times a WC Flushvalve is operated.</i>		