No-touch Automatic Taps

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 to name a few.

DVS’ 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 operated, DVS no-touch products allow you to control your water efficiently, conserve energy and cut down on your costs without sacrificing performance and reliability.

How they work

With DVS automatic taps all of the electronics are housed within the body of the tap. The solenoid valve and power supply are connected to the tap using simple and secure IP65 rated cables and connectors.

When a user puts their hands under the tap, they are detected by an infrared sensor and the solenoid valve opens. The tap will run whilst there is motion in front of the sensor, allowing the user to wash their hands thoroughly without having to constantly re-activate the tap. Once the user removes their hands the electronics will automatically close the solenoid valve.

If the infrared sensor has been subject to vandalism and covered deliberately the tap will only run for approx 2 minutes before locking out until the sensors are cleared.

The DVS range of taps cover all requirements including deck mounting, wall mounting, high neck and long reach.

Features include:

- Up to 65% savings on water costs
- No-touch operation
- Hygienic - Helps avoid cross infection
- Easy to use - Ideal for disabled or elderly
- High performance & reliability
- Battery or mains powered
- Easy to install & maintain
- PEX lined hoses

What are the Benefits of Automatic Taps?

Hygiene

Automatic 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 automatic taps have been extensively developed and tested to achieve the current high levels of reliability. Dean Hazell of 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 6 litre flow reducing aerator (5 litre ECA approved available on request) 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.
Automatic Taps

**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 it ideal for heavy industrial applications.

The A32 and A45 are manufactured from stainless steel, and with a solid 38mm stainless steel ingot for the head assembly. Standard finish for these taps is brushed, but polished is available as an extra.

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**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. Standard finish for this tap is brushed, but polished is available as an extra.

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**Aquarius High Neck SV**
This tap is a shorter version (SV) 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. Standard finish for this tap is brushed, but polished is available as an extra.

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**Classic**
Simple and robust, this traditionally designed tap is manufactured from chrome plated heavy brass, and like the entire DVS range of automatic taps incorporates DVS’ award-winning micro-electronic technology. Standard finish for this tap is chromed brass.

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**Classic Swan**
The elegant Classic Swan automatic tap is manufactured from chrome plated heavy brass, and like the entire DVS range of automatic taps incorporates DVS’ award-winning micro-electronic technology. Standard finish for this tap is chromed brass.

Please Note: The operation of the Classic tap can be affected 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.

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**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. Standard finish for this tap is brushed, but polished is available as an extra. This tap is available in three standard lengths; 150mm, 200mm and 250mm.
### 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. This Pillar SV tap is a shorter version (SV) of the Aquarius Pillar. Its shorter body makes it ideal for recessed sinks whilst still retaining the main attractions of the original Aquarius Pillar.

These taps are only available in polished chrome finish.

### 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. Standard finish for this tap is brushed, but polished is available as an extra.

### Typical Savings

<table>
<thead>
<tr>
<th></th>
<th>Two Twist Taps</th>
<th>Push Taps</th>
<th>Automatic Taps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumption (per handwash)</td>
<td>2 litres</td>
<td>1.2 litres</td>
<td>0.8 litres</td>
</tr>
<tr>
<td>Consumption (per day)</td>
<td>200 litres</td>
<td>120 litres</td>
<td>80 litres</td>
</tr>
<tr>
<td>Consumption (per year)</td>
<td>50 m³</td>
<td>30 m³</td>
<td>20 m³</td>
</tr>
<tr>
<td>Water Saving (per day)</td>
<td>-</td>
<td>80 litres</td>
<td>120 litres</td>
</tr>
<tr>
<td>Water Saving (per year)</td>
<td>-</td>
<td>20 m³</td>
<td>30 m³</td>
</tr>
</tbody>
</table>

Typical Saving with Automatic Taps = 30 M³ (per year)

### Automatic Taps

All Aquarius taps have the option to have long-lasting high-intensity LED lights fitted (at time of order), producing an incredible effect in the water.

The LED is programmed to switch on at the exact moment the solenoid valve opens, and switches off when the solenoid valves close.

This adds an extra effect for washrooms where you want to create a special ambiance.

### Colour Options

DVS LED automatic taps are currently available in the following colours (from left to right):

- Blue
- Bright White
- Red
- Warm White
- Green

### Features include:

- All the benefits of a standard DVS automatic tap
- High Intensity LEDs
- Long Lasting
- Unique design
- Easy to install and maintain
- Replaceable LEDs
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 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

Tap Spouts (No Electronics)

Using DVS tap spouts with a separate control source, like the ‘Tap Control System’ for example, would provide solutions for various 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
- Easy to install

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.

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 D064 battery pack).

When mains power is restored the unit will switch back to mains supply.

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**Automatic Taps**, **Control Systems & Spouts**

**Automatic Washrooms**

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Contact Information:

**T:** 01803 529021  
**F:** 01803 559016  
**W:** www.dartvalley.co.uk
**Typical Installations**

*Not to scale*

**Automatic Taps**

**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.**

**Pressure Notes:** All automatic taps come standard with a 12.7mm solenoid valve which requires 0.5 BAR to operate. Lower pressure valves can be provided if necessary, but please specify on order or contact DVS for advice.
Notes: Please see price guide on pages 29-31 for specific tap kit codes. For more information regarding anti-rotation pins, please see our website or telephone our sales team.
Automatic Taps

Control Systems and Sensors

D107/2/T
Tap control system - Mains
D107/2/T/AA (top)
D107/2/T/C (bottom)
2 Channel tap control box - Battery
D102/AV/B (blue insert)
D102/AV/R (red insert)
Anti-vandal wave-on sensor with 50mm bezel
Cable length: 3m
Fixing: 3/8” BSP
Fixing for extension: 3/8” BSP
(17mmø clearance drill hole)
D104/50/B (blue insert)
D104/50/R (red insert)
Tactile switch with 50mm bezel
Cable length: 3m
Fixing: 1/2” BSP
Fixing for extension: 3/8” BSP
(22mmø clearance drill hole)
D102
Wave-on sensors with 38mmø and 50mmø bezels
Cable length: 3m
Fixing: 3/8” BSP
(17mmø clearance drill hole)
D615/PURGE
Purge controller
D615/PURGE/COUNTER
Purge controller with LCD counter
D615/BBU
Battery backup unit

Spouts (No Electronics)

D600
Aquarius WM tap spout
Fixing: 3/4” BSP
(28mmø clearance drill hole)
D173/AL/TAP/A/30
30° High security WM tap spout - Stainless Steel
Fixing: 1/2” BSP
(22mmø clearance drill hole)
D173/AL/TAP
45° High security WM bath spout - Stainless Steel
Fixing: 3/4” BSP
(28mmø clearance drill hole)
D600/CP
Wall mounted fixed spout - Chrome
Fixing: 3/4” BSP
(28mmø clearance drill hole)

...continued on next page
Automatic Taps

Accessories

D029/TF
Touch free tap self-adhesive polythene label (comes as part of all automatic tap kits).

D222
Automatic tap single PSU - 6v
Mains cable length: 1m
Low voltage cable length: 1.5m

D224
Heavy duty PSU for Up to 6 taps - 6v
Mains cable length: 2m
Low voltage cable length: 0.5m

D064
B lead with battery and box - 6v

D064/D
B lead with double battery and box - 6v

D026
Pex hose (*standard length)

D623
A lead - Y splitter

D624
T Connector

D028/15/15
Pex hose

D035
6-port outlet power connector

Extension leads
(*lengths range from 1M to 10M)

Classic automatic taps in a domestic environment