

# Dart: Thermostatic Wall Tap

Architects  
Data File

## Product Detail



Product: Dart  
Code: TP1138

Issue: 1  
Date: 26/01/16

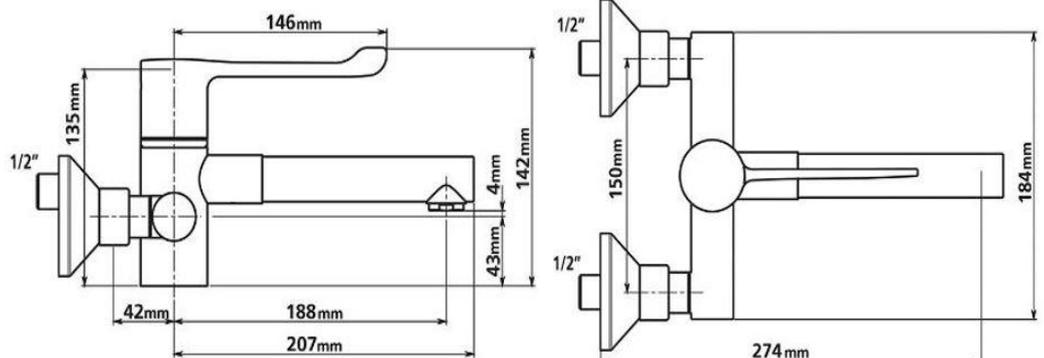
### Product description:

The Dart is the wall-mounted single lever thermostatic washbasin mixer with a Bioclip stainless steel spout that can be easily removed for cleaning and descaling; its smooth interior reduces bacterial development. It also has progressive temperature control from cold water to 40°C. TMV3 approved. Buildcert/D08 Spec. no. BC1107/1212

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### Technical Detail:

Finish: Chrome Plated  
Material: Body – Brass Spout - <304> 1.4301 SS  
Flow Rate: 7 lpm at 3 bar  
Temperature: Cold to 40°C  
Features: Stop Purge Connections, Removable Spout for Internal Cleaning and Descaling, Anti-scalding Failsafe, Securitouch Thermal Insulation Prevents Burns, Body and Spout have Smooth Interiors, Flow Straightener.  
Wras approved: Yes



# Dart: Thermostatic Wall Tap

## Installation Detail

Reminder: Ensure that hot water is always delivered from the left side (letter **H** on the mixer body)

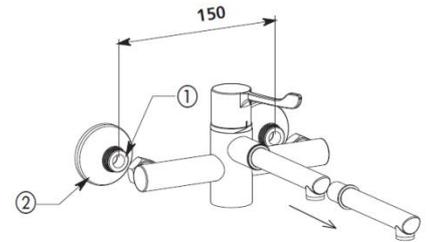
• **Wall-mounted basin/sink version with 150 centres.**

Off-set connectors enable adjustable pipe-centres.

Mount the mixer so that the hot water inlet is on the left side and the outlet towards the bottom.

> Mixers supplied with Stop/Purge Connectors

Please refer to the specific installation guide supplied with the 2 connectors.



**Operation:**

**Basin/sink version**

• In position (1-a), the single lever thermostatic mixer is in the closed position.

• When lever \_ is turned clockwise, the mixer starts to deliver cold water at the temperature of the cold water supply up to position (1-b).

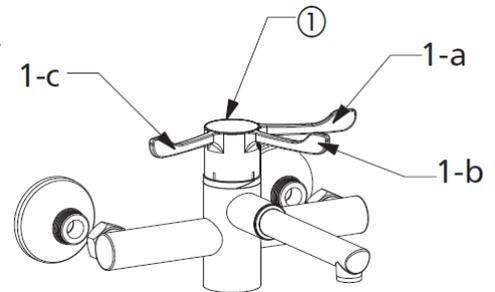
Continue turning the control lever \_, and the water will get progressively warmer up to position (1-c), which is the maximum temperature setting.

This maximum temperature is pre-set at the factory between 39°C and 41°C with cold and hot water pressures balanced at 3 bar dynamic pressure;

HW T°= 65°C +/- 5°C and CW T°= 15°C +/-5°C.

Safety: If hot or cold fails, the mixed water will shut off within 2 seconds. For anti-scalding safety the hot & mixed water temp differential must be 15°C. Check the anti-scalding failsafe every 2 months maximum depending on water quality. Shut of cold water & check hot stops with 2 seconds.

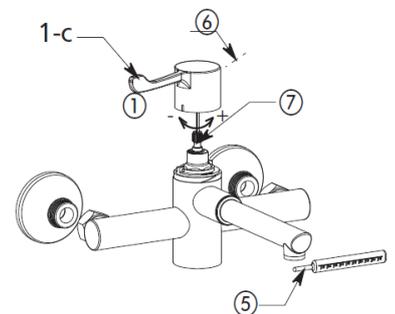
**Note:** The anti-scald safety is active if the cold water supply fails.



**Temperature Calibration:**

Our mixers are pre-set at the factory under 3 bar pressure, with hot and cold water supply pressures balanced, and hot water temperature at 65°C +/- 5°C and cold water temperature at 15°C +/-5°C. If the conditions of use are different, the mixed water temperature may differ from the set temperature (40°C). The control lever should be repositioned to the corresponding temperature:

- Turn the lever \_ to the hot water limit (1-c) then,
- Take a reading of the temperature with a thermometer \_.
- Loosen the grub screw (6) without fully removing it, using a 2.5 mm Allen key, and remove the control lever.
- With a 2.5 mm Allen key, turn the screw situated on the spindle (7) clockwise or anti-clockwise to adjust the mixed water temperature (max. 41°C for basins/sinks).
- Reposition the control lever in position (1-c) to check the flow has fully stopped.



**Thermal Shock**

It is possible to activate a thermal shock at the temperature of the hot water in the system:

- Turn the control lever (1) to the maximum hot water position (1-c),
- Loosen the grub screw (6) without fully removing it, using a 2.5mm Allen key, and remove the control lever.
- Using the 2.5mm Allen key, turn the screw on the spindle (7) as far as possible to achieve the temperature of the hot water in the system (approx. 3 turns).
- Once the thermal shock is complete do not forget to re-commission the mixer.

## Maintenance and Care Of Your Product

- Check the calibration at least twice a year.
- Check the anti-scalding safety every two months and as often as necessary depending on the water quality. Shut-off the cold water and ensure that the hot water shuts-off in less than 2 seconds.
- Check that the thermostatic cartridge “seats” are waterproof twice a year and as often as necessary depending on the water quality.

To check the seats:

1. Shut-off the hot water: check that there is no cross flow of cold water into the hot water system.
2. Shut-off the cold water: check that there is no cross flow of hot water into the cold water system. If there is cross flow, clean the seats or replace the thermostatic cartridge.

• To maximise the reliability of thermostatic mixing valves over time, and to reduce the risks associated with Legionella, DELABIE recommend an annual check of the following items:

1. Interchangeable cartridge: descale internal parts, and replace any worn or damaged components.
2. Mixing chamber: descale.
3. Replace the control lever and tighten to 13 Nm  $\pm$ 1.

• In the event of malfunction during checks: clean the mechanisms and de-scale.

Change any worn parts if necessary.

### • **Cleaning chrome:**

Do not use abrasive, chlorine or acid-based cleaning products. Clean with soapy water using a cloth or a sponge.

### • **Frost protection:**

Drain the pipes and operate the mixer several times to drain any remaining water.

### **REMEMBER:**

• **Our mixers must be installed by professional installers** in accordance with current regulations and recommendations in your country, and the recommendations of the fluid engineer.

• **Sizing the pipes correctly** will avoid problems of water hammer and loss of pressure/flow rate.

• **Protect the installation** with filters, water hammer absorbers or pressure reducers to reduce the frequency of maintenance.

• **Install stopcocks** close to the mixer to facilitate maintenance.

• The pipe work, stopcocks, bib taps and all sanitary fittings should be checked at least once a year, and more frequently if necessary.