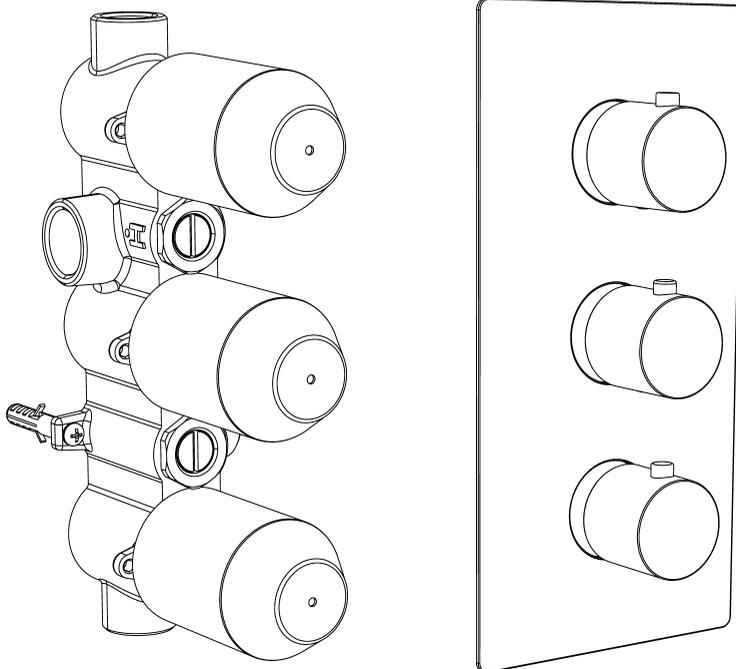


BAGNODESIGN

EXPERTLY CRAFTED BATHROOMS

Installation Guide



KOY & ZEPHYR THERMOSTATIC SHOWER MIXER

A member of SANIPEXGROUP
www.sanipexgroup.com

IMPORTANT PLEASE READ

All products manufactured and supplied by BAGNODESIGN are fit for purpose as long as they are Installed, used correctly, cleaned and receive regular maintenance in accordance with these instructions...

Remove all packaging and check the product for damage or missing parts before commencing with the installation.

Any alterations made to this product and its components may infringe product certification, infringe water regulations and invalidate the guarantee. The Installation must comply with all local/national water supply authority regulations/bylaws and building and plumbing regulations, therefore we strongly recommend that your product be installed by a reputable qualified trade's person.

PRODUCT LIFECYCLE

"The product LiveCycle/e is the collective stages that a product goes through from its conception and design through to its ultimate disposal."

DISPOSAL GUIDANCE

The best way to ensure your Product has a long life is to follow the Care and Maintenance guides set by the Manufacture after purchase. This document can be found at www.bagnodesignlondon.com. The life cycle of the product is *not* in correlation to the product Guarantee; the standards the products are manufactured or certified to (e.g. CE & WRAS) can exceed past the Guarantee duration. After the life cycle of the product is deemed complete by the end-user please follow the below to dispose of the items correctly...

Mixers (Shower Valves):

If the mixers are no longer accepted due to mechanical use or aesthetic style, these can be disposed of at a registered Local Authority waste recycling center where the individual components can be sorted.

CLEANING CARE GUIDE

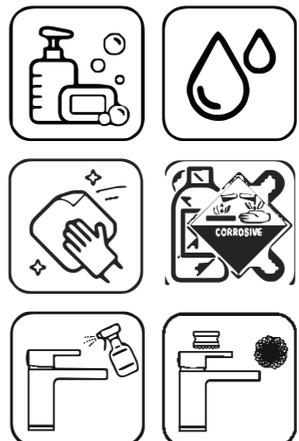
Only use a mild soap and water for cleaning.

Rinse with water to remove the mild soap solution.

We recommend the product is dried using a soft cloth after every use.

Never use any abrasive or strong cleaning products containing, bleaches, acids (hydrochloric, formic, phosphorus, chlorine or acetic), strong detergents, limescale remover, alcohol or dyes etc. **Never** use abrasive cleaning pads, wire wool or microfibre cloths. **Never** use cleaning equipment that may have been pre-used and contaminated with the above substances.

Never apply the cleaning product directly onto the finished surface.



GENERAL INSTALLATION:

To the installer, please read and follow these instructions carefully, as the guarantee is only valid if the product is installed as directed.

Don't rush, read the instructions first and run through them before you begin, keep the fittings together to avoid loss, do not overtighten screws or bolts.

If the product is covered with polythene protective film, do not remove until the installation is complete to grant maximum protection. However, remove film where any two surfaces will be in permanent contact. If tools are required to be used on a 'finished' surface, please place a cloth or similar over the area to protect the item from unnecessary scratching.

Before making any inlet pipe connections, all supply pipes **MUST** be flushed to remove debris such as solder, swarf, plastics and other building/construction substances.

On fittings such as faceplates a small amount of lubrication is recommended on the rubber seals for ease of fitting.

PLUMBING RECOMMENDATIONS:

An independent hot and cold water supply is required for the showering system. The recommended pipework should be $\text{\O}22\text{mm}$ minimum for low pressure systems. If more than one shower mixer is installed, the minimum feed should be $\text{\O}28\text{mm}$. (ensure adequate supply of both hot and cold water can be maintained).

The fitting of an in-line filter is recommended, failure to do this could result in damage to the cartridge and its components, it could also result in poor performance water flow from the outlet. The fitting of isolation/stop valves on the inlet feeds is advised for ease of maintenance. Pipework to concealed mixers must be installed in accordance to local regulations and is recommended to be insulated to prevent heat loss, prevent freezing and reduce condensation.

OPERATING SPECIFICATIONS:

Hot Water Supply temperature:	Maximum: 85°C - Advisable: 55-65°C
Cold Water Supply temperature:	Minimum: 5°C – Advisable: 5-25°C
Factory temperature setting of Valve:	38°C

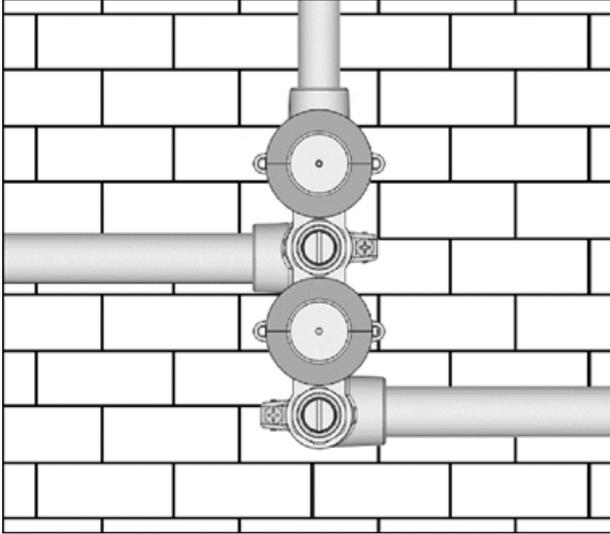
Minimum difference between hot and mixed temperature: **10°C**, the temperature of the inlet water must be higher than the maximum mixed water temperature from the outlet. (e.g. shower temperature 43°C: minimum hot water temperature 53°C).

Working pressures:	Maximum: 5 bar - Minimum: 0.5 bar
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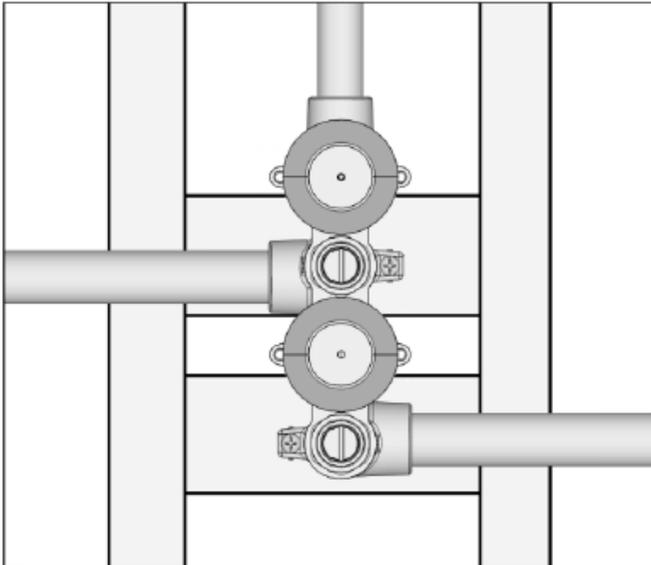
Hot and cold operating pressures should be kept as balanced as possible in order to maintain maximum efficiency. When the supply pressure is higher than 5 bar a pressure reducing should be fitted before the shower mixer.

This installation guide is for reference only, in case there is a discrepancy between that of the instructions and that of the actual product, the latter should be taken as standard & subject to change without prior notice.

INSTALLATION TYPES

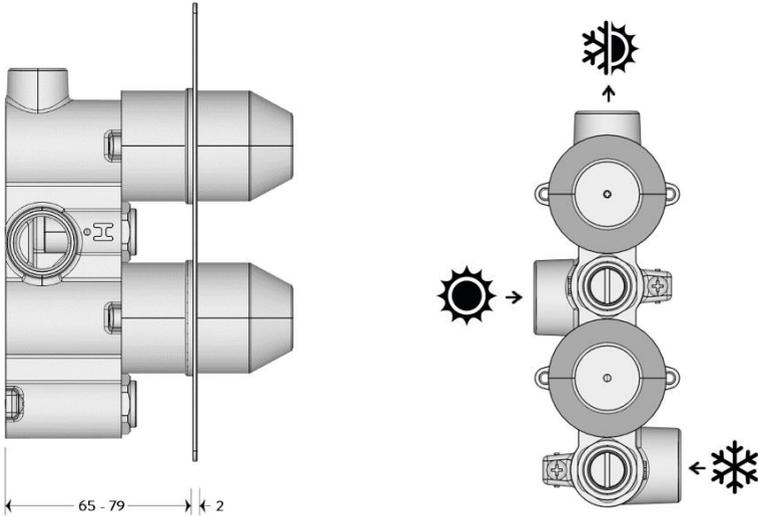


Solid Wall Installation - Place the valve on the wall, level and mark the positions of the 2 fixing points, drill the wall with the correct sized drill bit, install the wall plugs and screw to fasten the valve to the wall.



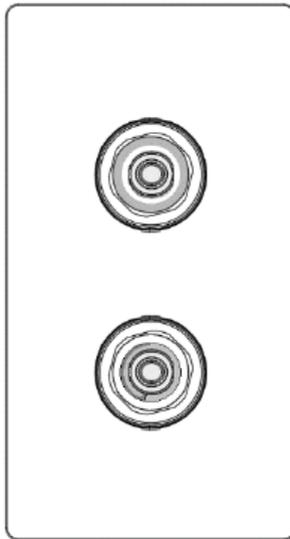
Dry Wall Installation - For framed installations ensure that the timber/noggin is capable of securing and holding the valve in position, make sure the valve is level and use screw to fasten the valve to the wall.

ONE OUTLET / 2 HANDLE – CONCEALED PART



Install the concealed part at a depth so that the finished surface is between the Min/Max marking above.

Install the **cold** water supply from the right and **hot** water supply from the left as shown per the above (if possible pressure test).

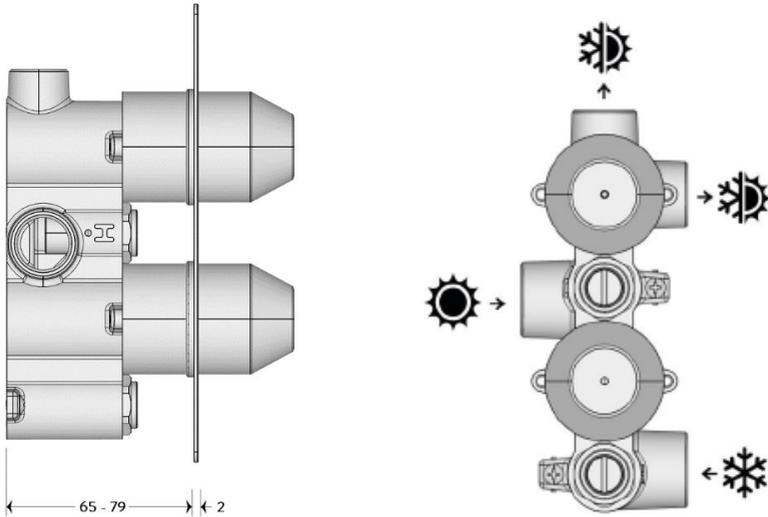


Remove the protective cover caps before face plate installation

Apply the surrounding finishes, fit the faceplate onto the valve body, if necessary run a small bead of silicone around the outer rim of the face plate.

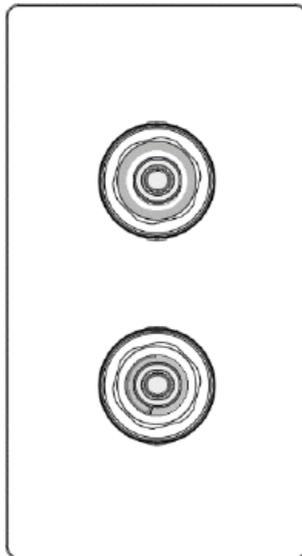
To fit handles please go to page 8 & 9

TWO OUTLET / 2 HANDLE – CONCEALED PART



Install the concealed part at a depth so that the finished surface is between the Min/Max marking above.

Install the **cold** water supply from the right and **hot** water supply from the left as shown per the above (if possible pressure test).

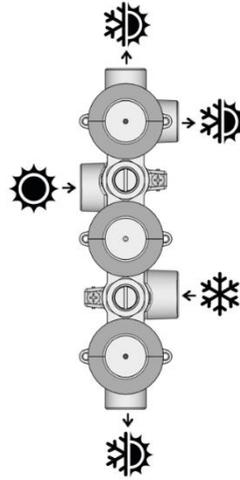
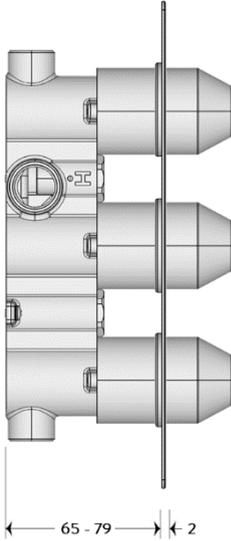


Remove the protective cover caps before face plate installation

Apply the surrounding finishes, fit the faceplate onto the valve body, if necessary run a small bead of silicone around the outer rim of the face plate.

To fit handles please go to page 8 & 9

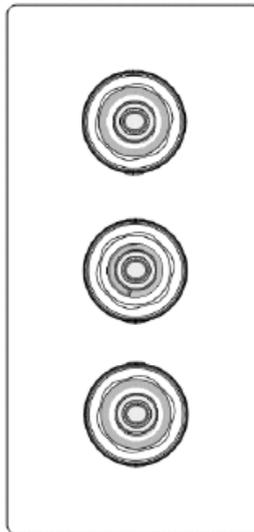
THREE OUTLET / 3 HANDLE – CONCEALED PART



Top outlet to head shower*
Side outlet to hand shower*
Bottom outlet to bath spout or other*

Install the concealed part at a depth so that the finished surface is between the Min/Max marking above.

Install the **cold** water supply from the right and **hot** water supply from the left as shown per the above (if possible pressure test).



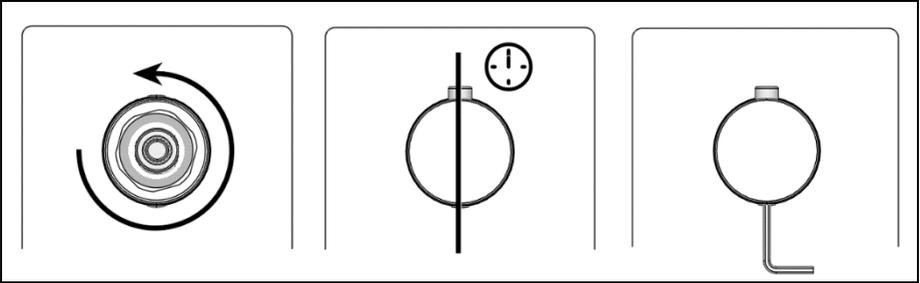
Remove the protective cover caps before face plate installation

Apply the surrounding finishes, fit the faceplate onto the valve body, if necessary run a small bead of silicone around the outer rim of the face plate.

To fit handles please go to page 8 & 9

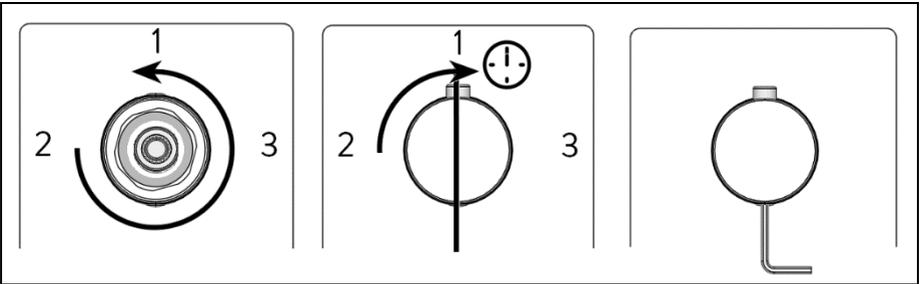
DIVERTER HANDLE INSTALLATION & OPERATION

ONE OUTLET



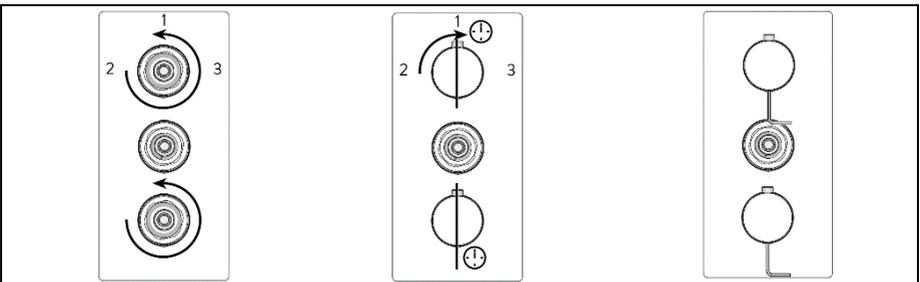
Turn the spindle of the valve as far anti-clockwise until its stops. Place the diverter handle on at the 12 o'clock position. Tighten the grub screw from underneath until secure. Insert the screw cover.

TWO OUTLET



The diverter has 3 positions. Turn the spindle of the valve as far anti-clockwise until its stops, now turn it back once, this will now be in the off position (1). Place the diverter handle on at the 12 o'clock position. Tighten the grub screw from underneath until secure. Insert the screw cover.

THREE OUTLET



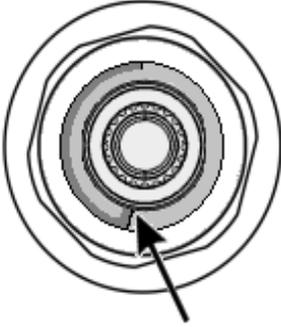
The three-outlet mixer utilizes the one and two outlet methods, please follow the above:

Top valve two outlet

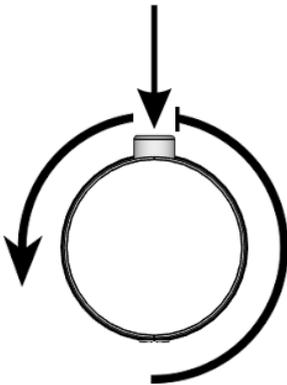
Bottom valve – one outlet

To operate turn the handle to the desired outlet. If three outlet mixer 2 functions/outlets can work simultaneously.

TEMPERATURE CONTROL HANDLE INSTALLATION & OPERATION – ALL MODELS



The Calibration ring is pre-installed and set at the 12 o'clock position at 38°C **DO NOT REMOVE** Place the diverter handle in position. Tighten the grub screw from underneath until secure. Insert the screw cover.



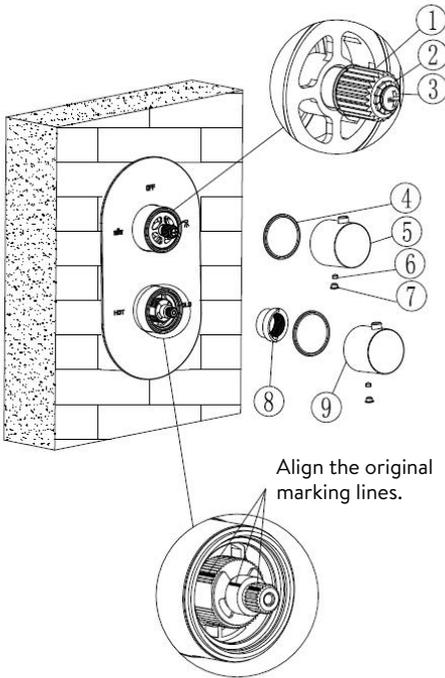
To test function, turn the handle clockwise, then anti-clockwise, it should stop at the 12 o'clock position, press the button to turn.

When turning the handle back clockwise, at the point the button comes to the 12 o'clock position a 'click' will sound and the button pop back up.

ADJUSTMENT OF HANDLES

1. Spindle gear
2. O-ring
3. Set screw
4. O-ring
5. Handle
6. Set screw
7. Plug
8. Stop ring
9. Handle

Diverter Handle

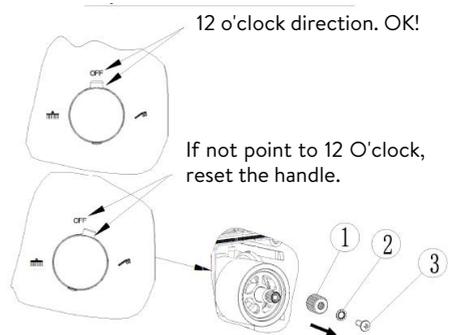


Thermostat Handle

Caution:

Do not rotate the spindle during any installation process. Re-align the original marking lines once the spindle was moved.

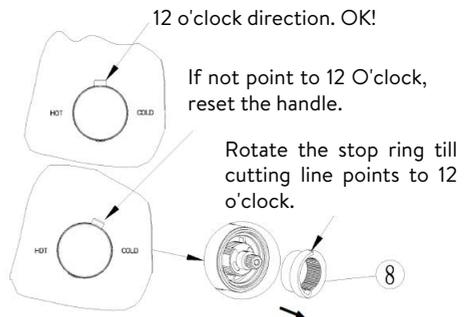
Adjustment of diverter handle



Diverter handle reset steps:

1. Take off the handle.
2. Loosen the screw #3 & O-ring #2.
3. Take off the gear #1, and slightly rotate the gear (in a small angle).
4. Fix on the gear then test to fix on the handle.
5. If the handle still couldn't fixed on correct position, repeat above Step-3.
6. Until the handle could be fixed on correctly.

Adjustment of diverter handle



Thermostat handle commissioning steps:

1. Take off the handle.
2. Take off stop ring part# 8 and rotate it till cutting line points to 12 o'clock, then fix it onto the cartridge.
3. Fix on the handle.

COMMISSIONING

To Commission a thermostatic mixer firstly check the following: (requirements on page 2)

1. The supply water temperatures are within the valves operating range.
2. The supply working pressures are within the valves operating range.
3. The supply working pressures are balanced
4. Isolating valves (and strainers preferred are provided).

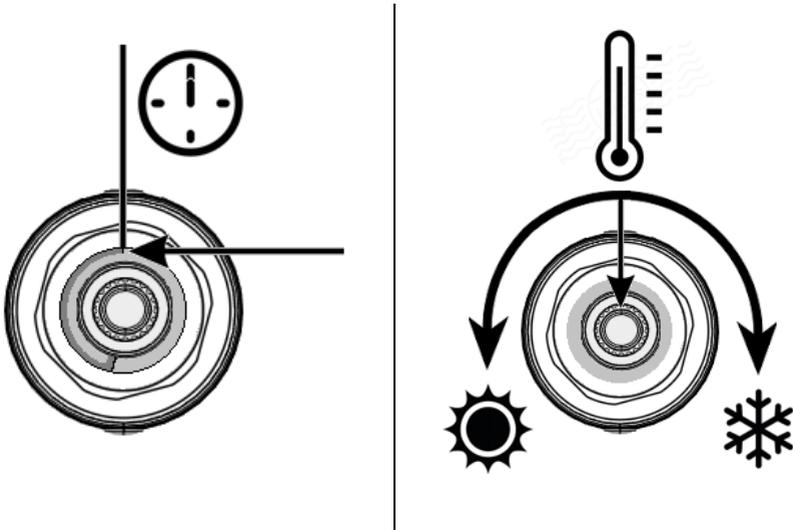
With the temperature control handle in the 12 o'clock position open a water outlet.

Using a thermometer, measure the mixed water temperature at the outlet. If 38°C is achieved the temperature valve is working correctly. If the temperature is above 38°C re-calibration may be required. (Please see CALIBRATION)

Carry out the cold-water supply isolation test by isolating the cold water supply to the valve, wait for five seconds the valve may stop flowing or if water is still flowing check that the temperature is below 46°C.

CALIBRATION

If the mixed water temperature is above or below 38°C you may need to re-calibrate the cartridge.

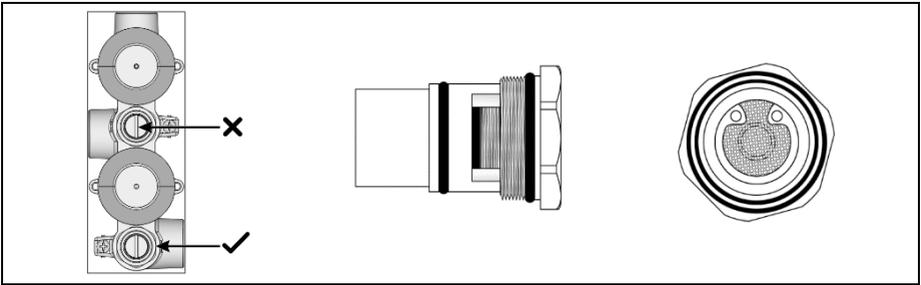


Remove the handle and first make sure the calibration ring is in the correct 12 o'clock position. if not, place the calibration ring in the 12 o'clock position and re-test. If the calibration ring is in the 12 o'clock position carefully remove.

Open an outlet place a thermometer under the flowing water and adjust the spindle on the cartridge, right for colder, left for hotter until 38°C is achieved. Place the calibration ring back in the 12 o'clock position and re-install the handle. Re-test to ensure the valve is working correctly.

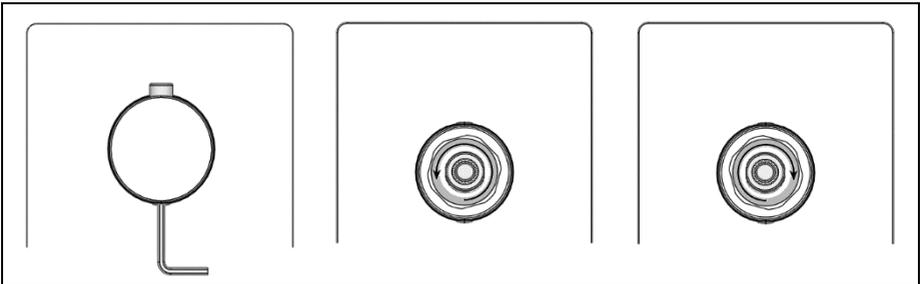
MAINTENANCE

INLET FILTERS:



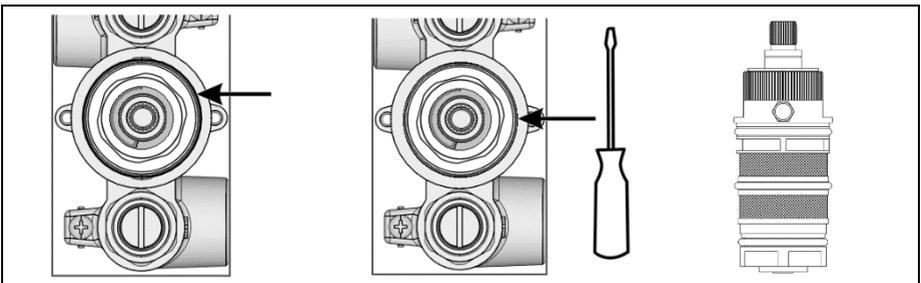
Periodically the filters will need to be cleaned. first remove all handles and than the faceplate. Using a spanner carefully remove the filter housing (not the screwdriver slot) from the mixer body, flush under water to remove the small debris or soak overnight. Re-install the filters back into the body and re-tighten.

DIVERTER VALVE



Remove the handle to expose the valve, taking care to protect the surrounding finishes of the mixer carefully using a spanner unwind the valve from the mixer body. Maintain, repair or replace and the carefully re-install.

THERMOSTATIC CARTRIDGE



Remove the handle and then the faceplate. To access the thermostatic cartridge cover shroud also needs to be removed, this can be done by hand anti-clockwise. With the shroud removed the securing on the right side can be loosened allowing the cartridge to be released. Maintain, repair or replace and then carefully re-install.

