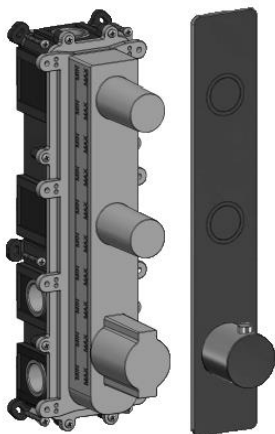


# BAGNODESIGN

EXPERTLY CRAFTED BATHROOMS

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## General Installation Guide



### TOKO

thermostatic horizontal and vertical  
round & square pressure-switch shower  
mixers

NOTE: for illustrative purposes the vertical model is shown, please follow the same tolerances and depths for the horizontal model. Water connections are detailed inside for both models

A member of  SANIPEXGROUP

Please leave these instructions with the customer



## IMPORTANT PLEASE READ

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

Any alterations made to this product and fittings may infringe water regulations and invalidate the guarantee.

The Installation must comply with all Local/National Water Supply Authority Regulations/Byelaws and Building and Plumbing Regulations.

We strongly recommend that your product be installed by a reputable qualified trade's person.

### **General Installation:**

To the Installer, please read and follow this instruction 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 fittings together to avoid loss. Do not over tighten screws or bolts.

If the product is covered with polyethylene protective film, do not remove until installation is complete to grant maximum protection. However, remove film where any two surfaces will be in permanent contact.

Before making any inlet pipe connections, all supply pipes **MUST** be thoroughly flushed to remove debris.

### **Plumbing Recommendations:**

An independent hot and cold water supply is required for the shower system.

The recommended pipe work should be 22mm minimum for low pressure system.

If more than one shower mixer is installed, the minimum feed should be 28mm. (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 components or low flow from the mixer.

The fitting of isolation/stop valves on the inlet feeds is advised for ease of maintenance.

Please leave this installation manual with the end user once the product has been installed.

# Operating Specifications:

Hot water supply temperature:	<b>Maximum:</b>	<b>85°</b>
	<b>Advisable:</b>	<b>65°C</b>
	<b>Minimum:</b>	<b>5°C</b>

Minimum difference between hot and mixed temperature:     **10°C**

The temperature of the inlet hot water must be higher than the maximum mixed water temperature required from the outlet.

Working pressures:	<b>Maximum:</b>	<b>10 bar</b>
	<b>Minimum:</b>	<b>0.5 bar</b>

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 valve should be fitted before the shower mixer.

# Technical Data:

The mixer is supplied with a cover plate for the installation at a depth from 72mm to 91.5mm. The temperature control knob is pre-set from the manufacturer at 38°C.

The mixer ports are supplied with a female thread G  $\frac{3}{4}$ " & NPT  $\frac{3}{4}$ ".

The thermostatic mixer is provided with an additional outlet at the base of the mixer. When using the bottom outlet, a flow control is required between the mixer and the outlet.

The bottom outlet is sealed with a removable plug.

# Product Aftercare:

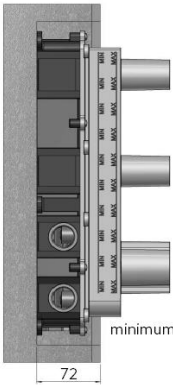
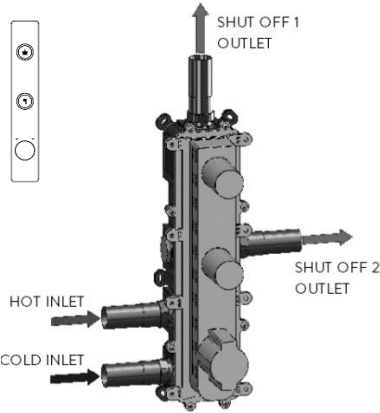
- We recommend cleaning with a soft damp cloth and mild soap solution.
- Do not use cream cleaners or cleaners containing bleach.
- Do not scrub or scour.
- Do not use abrasive cleaning agents.
- Do not use solvent based cleaners.

**READ THIS MANUAL CAREFULLY BEFORE USING YOUR MIXER AND KEEP IT AT HAND FOR FUTURE REQUIREMENTS**

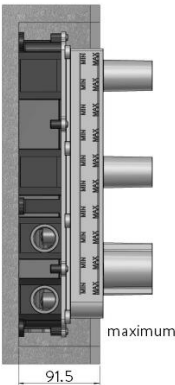
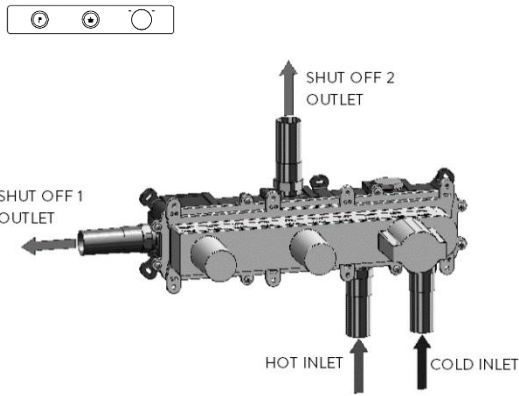
*This installation guide is for reference only. In case there is a discrepancy between that of the instructions and that of the actual product, the latter should be taken as standard. The rights of modification are reserved.*

# Installation *Concealed Part*

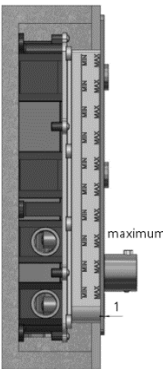
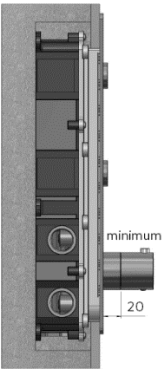
## Vertical Installation:



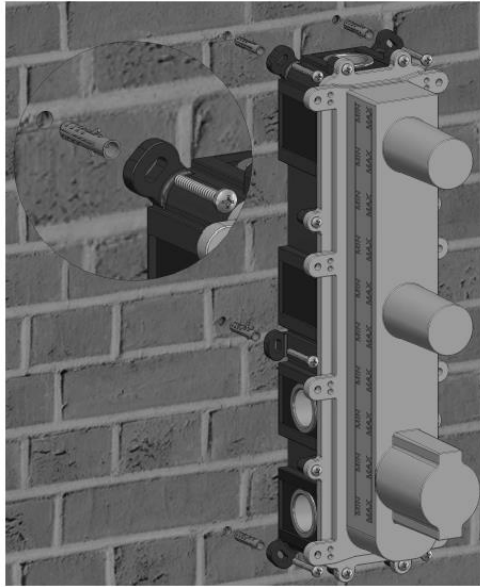
## Horizontal installation:



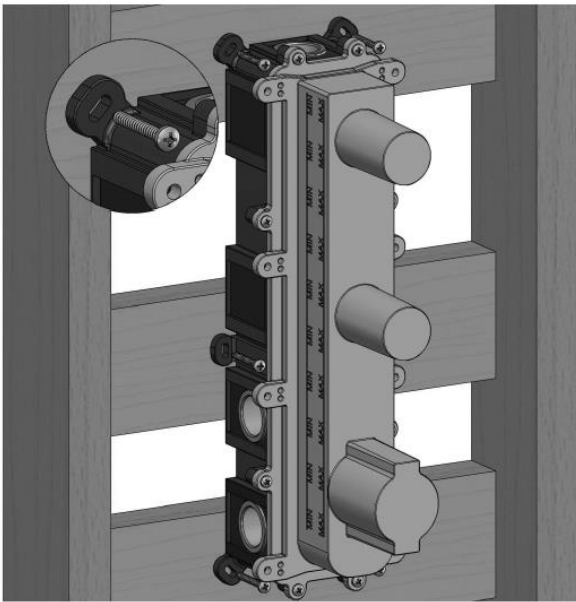
Please consider the final wall application, Tiles, Mosaics, Water-proof board or Marble and install to the tolerances shown on the protection cover.



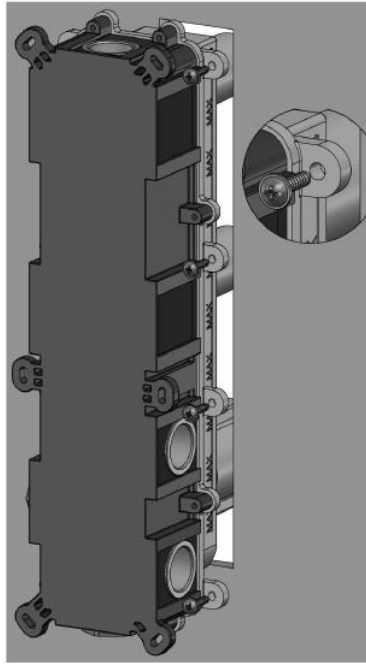
The face plate has a slide tolerance of a minimum 20mm and maximum of 1mm.



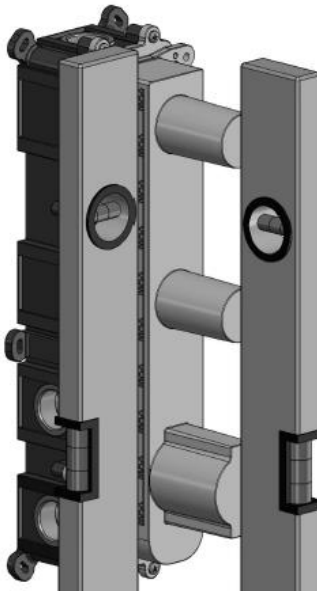
For In-The-Wall installation, place the box on the wall, mark the positions of the 4 fixing points, drill the wall with the correctly sized drill bit, install the wall plugs and use the screws to fasten the box to the wall.



For Framed Installations ensure that the timber noggin is capable of securing and holding the box in place, use the screws to fasten the box to the wall.

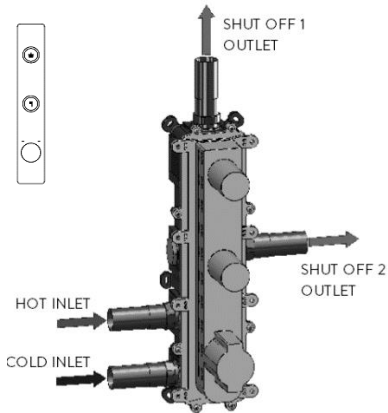


For Rear Installation, ensure the cut out is the correct height and width (use the box for dimensions) Screw the box to the drywall using the front fixing points on the clear plastic box.

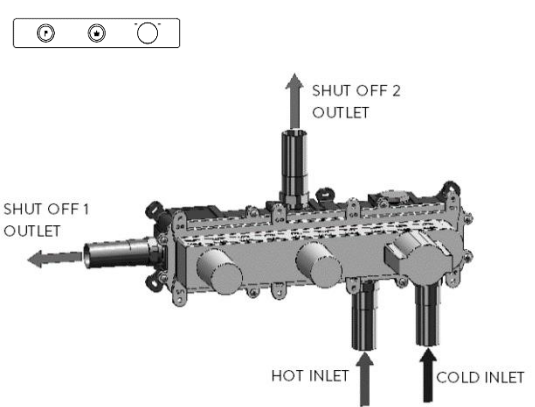


For all of the types of installation ensure the box is level on all axis.

### Vertical Installation:



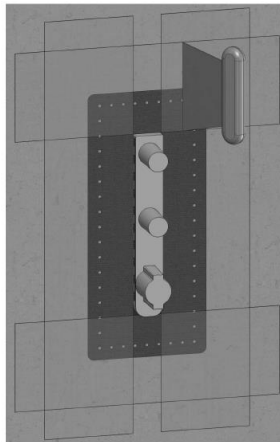
### Horizontal installation:



Connect the Hot and Cold water supplies to the mixer, then install the mixed water supplies, cap off and pressure test to check for any leakage\*

**ATTENTION: NEVER EXPOSE THE BOX TO OPEN FLAME OR EXCESSIVE HEAT**

\* Before making any inlet pipe connections, all supply pipes **MUST** be thoroughly flushed to remove debris. Failure to do this could result in damage to the cartridge and components or low flow from the mixer\*

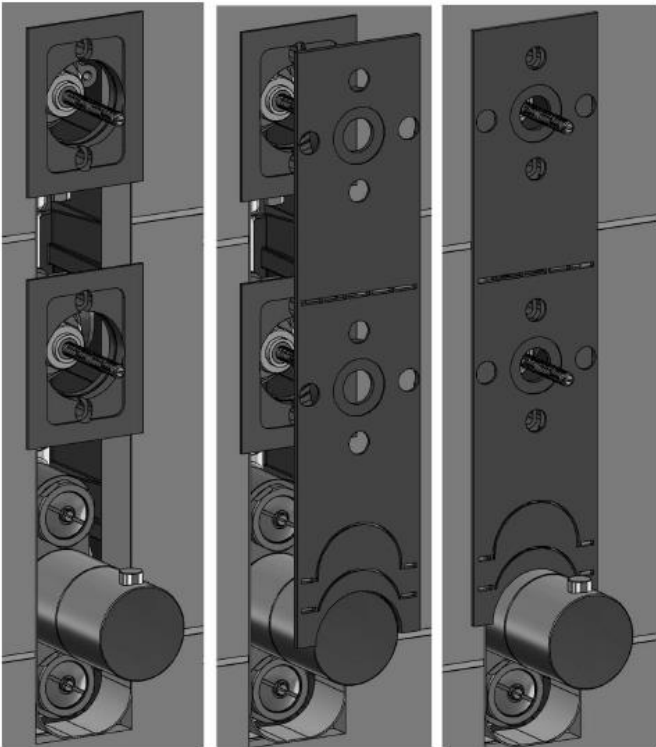
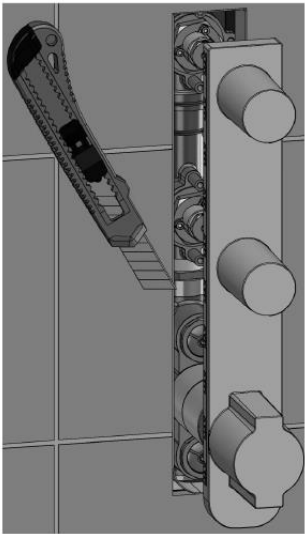


Before applying the finished surface, place the matting over the box and seal to the wall with glue/adhesive.

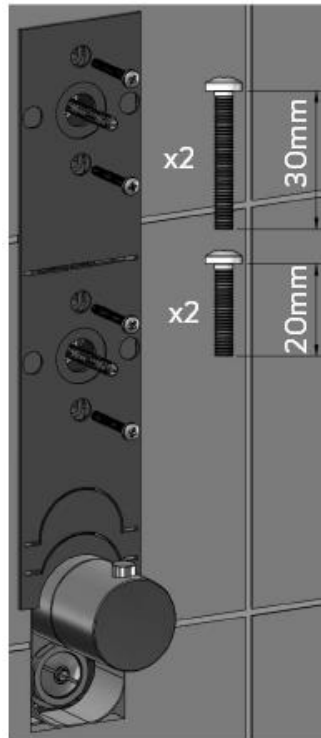


# Installation *Trim Part*

Once the mixer is installed in the wall, cut along the finished wall and remove the plastic guard.



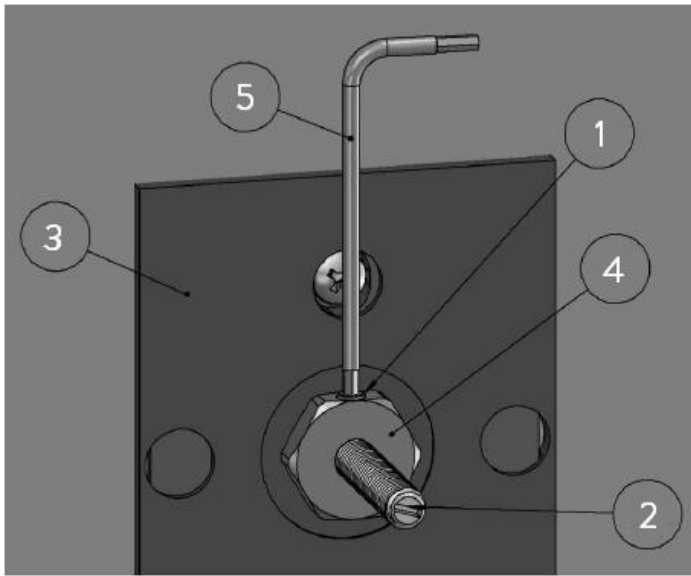
Place the support using the template to find the correct position.



Screw in the two screws to fix the plate support. Provided are two pairs of screws; two 20mm long and two 30mm long. Try first with screws 20mm screws, if these are too short use the screw long 30mm.

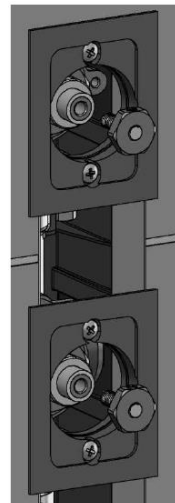
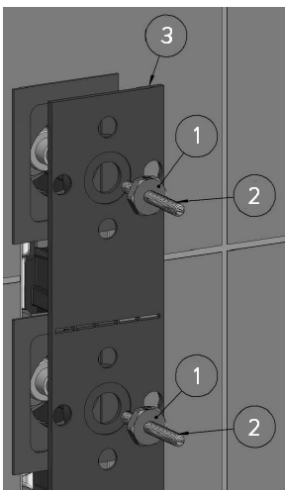


The mixer is factory set in the **ON** position, Press the plastic threaded rod and check that it is in the **ON** position.



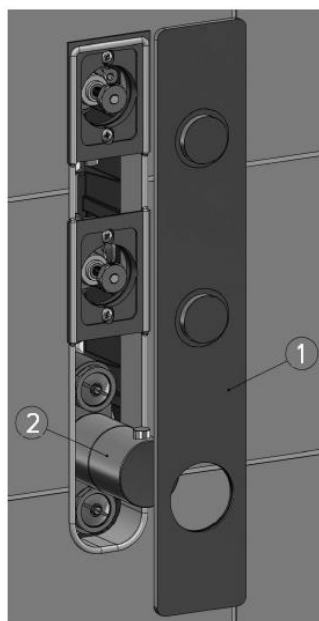
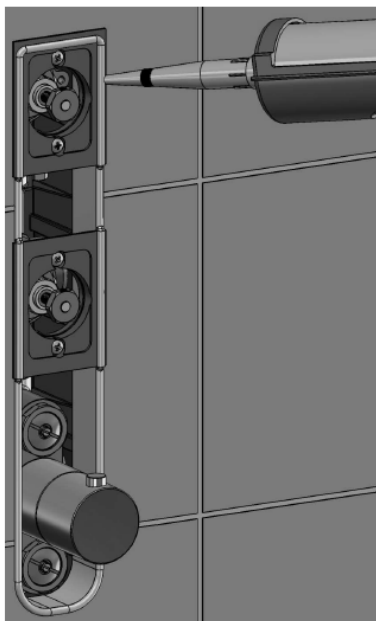
Screw the retainer (1), on the plastic threaded rod (2) until the template (3) is secure. Screw the grub screw (4) with the 2mm Allen key (5) and tighten.

**Repeat on both ON/OFF switches**



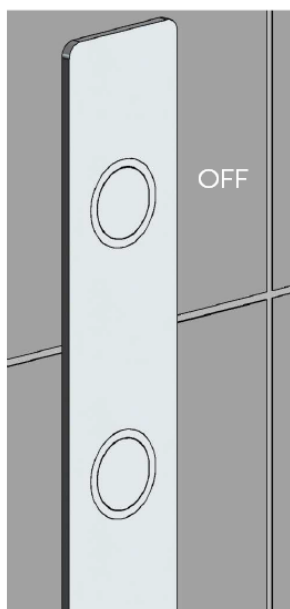
Unscrew the plastic threaded rod (2) and the retainer (1). Remove the template (3). Cut the plastic threaded rod near the retainer. Remove the burr left by cutting.

Screw the threaded rod with retainer back in to its place.



Put the silicone between the plastic guard and the wall and over the plate support.

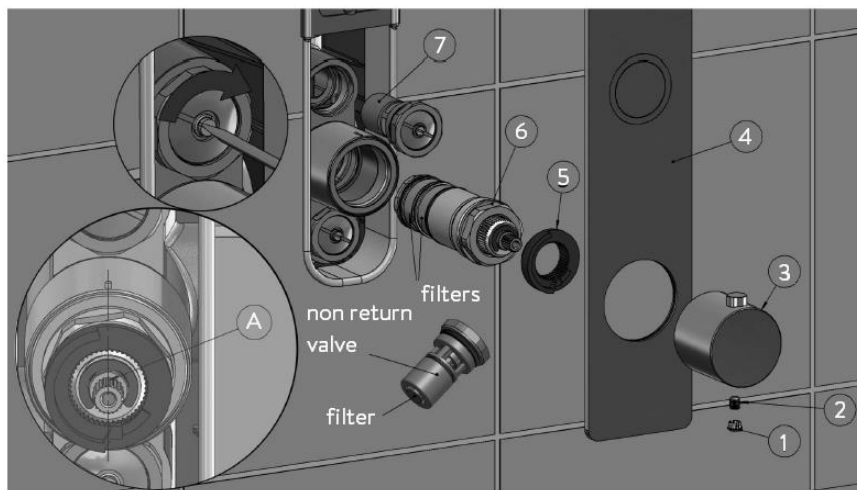
Insert the cover plate (1) on the control knob (2). Push the cover plate (1) to the wall.



Check the correct operation of the closure system

## MAINTENANCE

### REPLACEMENT OF THE THERMOSTATIC CARTRIDGE AND VALVE HOLDER



#### ***THERMOSTATIC CARTRIDGE***

- 1) Remove the cap (1), Unscrew the grub screw (2) with an 2,5 mm Allen key
- 2) Remove the handle (3). Remove the plate (4).
- 3) Close the water inlets by screwing in the valves (7), screw for 7 turns a flat screwdriver, in order to isolate the thermostatic cartridge.
- 4) Remove the stop ring (5).
- 5) Unscrew the thermostatic cartridge (6) anti-clockwise with a 30mm wrench.
- 6) Remove the thermostatic cartridge (6) and clean its filters under running water or leave to soak in vinegar in presence of limestone. **Grease the O-rings and, if damaged, replace them with new ones. 2x OR 2100 mm 25,12 x 1,78 1x OR 2106 mm 26,7 x 1,78**

#### ***VALVE HOLDER***

- 1) Close the water inlets
- 2) Unscrew the valve holders (7) anti-clockwise with a 27mm wrench. **DO NOT USE A SCREW DRIVER**
- 3) Remove the valve holders and clean the filters under running water or leave them soak in presence of limestone
- 4) Exerting a max torque of 8-10 Nm or 70-80 lbf.in for replacement

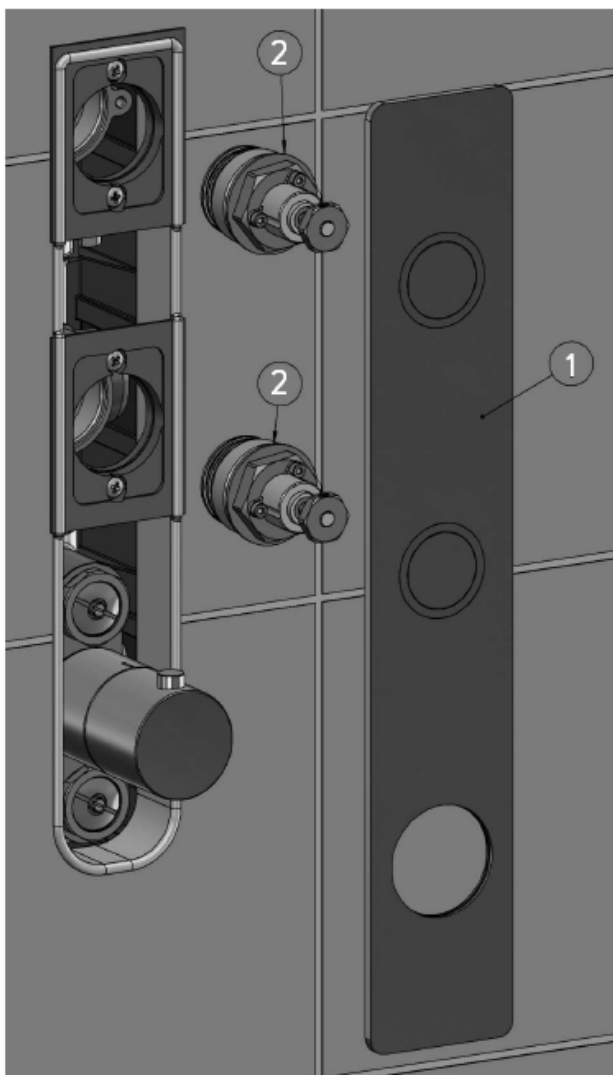
#### ***POSITION OF THE STOP RING***

- 1) Place the stop ring (5) as shown in the image above.
- 2) Using the handle, rotate the broached rod (A) to reach the set temperature of 38°C (check the temperature with a thermometer).
- 3) Turn clockwise for cold or anti-clockwise for hot water.

## MAINTENANCE

### REPLACEMENT OF THE SHUT OFF

- 1) Close the water inlets.
- 2) Remove the cover plate (1)
- 3) Unscrew the ON/OFF cartridge (2) anti-clockwise with a 30mm wrench.
- 4) Remove the ON/OFF cartridge (2) and clean its filters under running water or leave to soak in vinegar in presence of limestone.



## TROUBLESHOOTING

Problem	Cause	Solution
Reduced or missing flow	Closed water inlets.	Control the check valves.
	Blocked mixer.	Check if the inlet filters are cleaned.
	Blocked connecting pipes.	Check if the connecting pipes are cleaned.
	Blocked hand shower.	Clean or replace the hand shower.
	Water flow reduction when other shut off valves are in function.	Check if the check valves are fully open. Reduce the water flow of all open outlets.
The mixer does not shut off.	The gaskets are dirty.	Clean/replace the gaskets.
	The gaskets are damaged.	Replace the headwork.
Water too cold.	There is no enough hot water flowing through the mixer.	Set the regulation handle towards the hot water side.
	The boiler system does not give enough hot water.	Increase the temperature of the water fed from the boiler.
	The hot water inlet is restricted.	Check for any restriction on the pipeline.
Water too hot.	There is not enough cold water flowing through the mixer.	Set the regulation handle towards the cold water side.
	The cold water inlet is restricted.	Check for any restriction on the pipeline.
Temperature varies during use.	Temperature has decreased below the minimum required.	Wait for the hot water to be restored.
Fluctuation of temperature of the mixer water	Inverted connections.	Use a “reverse” cartridge.
	Inverted mixer.	Invert the mixer
Increasing of the temperature by turning clockwise. Decreasing of the temperature by turning anti-clockwise	Inverted connections.	Use a “reverse” cartridge.
	Inverted mixer.	Invert the mixer.

# BAGNODESIGN

EXPERTLY CRAFTED BATHROOMS

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