

INSTALLATION AND MAINTENANCE HANDBOOK



CB009

Concealed thermostatic mixers 2-ways



CB039

Concealed thermostatic mixers 3-ways

GENERAL CHARACTERISTICS

These thermostatic mixers are suitable for all water heating systems, provided they are installed correctly by a competent and qualified installer.
Please refer to the installation instructions of this handbook.

OPERATIONAL SPECIFICATIONS

Hot water supply temperature:

Maximum: 175°F

Minimum: 40°F

Advisable between 110°F and 140°F

The temperature control knob is preset with the safety stop at 100°F to avoid scalding.

Inlet hot water shall be minimum 50°F higher than the temperature required in the mixed anti-scalding position (safety stop)

Hot and Cold Operating pressure should be kept as balanced as possible in order to maintain maximum efficiency.

When the supply pressure is higher than 72 PSI a pressure reducing valve should be fitted before the shower valve

WARNING:

Flush supply lines prior to installation to prevent damage and malfunction of thermostatic cartridge

Cold water supply must be connected to inlet marked COLD and hot water supply must be connected to inlet marked HOT

BEFORE STARTING

<p>P Psi</p>	<p>MAX 70 15 MIN</p>	<p>3 1</p>				<p>RECOMMENDED: BALANCED PRESSURES</p> <p>Psi</p> <p>Psi</p>
<p>T °F</p>	<p>MAX 175</p>	<p>140 110</p>				

WARRANTY AND INSTRUCTION TO THE INSTALLER

WARRANTY

Hotbath guarantees its products and their conformity for 24 months from the delivery date.

Product conformity means that the products are free from faults which might make them unsuitable for the purpose for which they have been created.

The product fault warranty is limited to faults in the material or the construction which can be tracked back to the manufacturer.

The product warranty shall be applicable at the following conditions:

- a. The receipt or other proof of purchase must be kept by the buyer
- b. The request for replacement/repair accompanied by documentation must be presented to the retailer where the product has been purchased
- c. Faulty material must be delivered free to the retailer's premises
- d. The material will be checked upon receipt by the retailer and, if suitable, transferred to Hotbath for our prior inspection.

Should the complaint be founded, the product will be replaced and delivered free to destination. If the complaint is not founded, the reasons will be declared using the quickest and most appropriate means of communication.

The warranty shall automatically cease to be valid in the following cases:

- a. If the product has not been installed by qualified personnel and/or no test certificate has been issued
- b. If the buyer does not carry out the necessary and ordinary special maintenance, see detailed in this handbook
- c. If the product has been interfered with by the user
- d. If the operating fault is due to unauthorised intervention on the product.

IMPORTANT: INSTRUCTION TO THE INSTALLER

Please read these instructions, fill in blanks below and then give these instructions to the end user.

WARNING: Risk of scalding

This valve **MUST** have the temperature setting verified during installations.

The installer is responsible for installing the valve and setting of water temperature in accordance with these instructions.

THIS THERMOSTATIC VALVE HAS BEEN PRESET

BY _____

OF _____

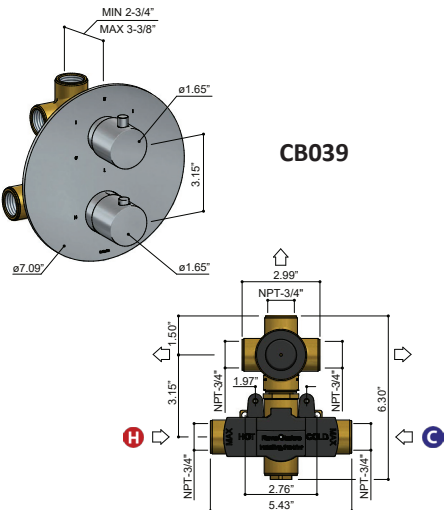
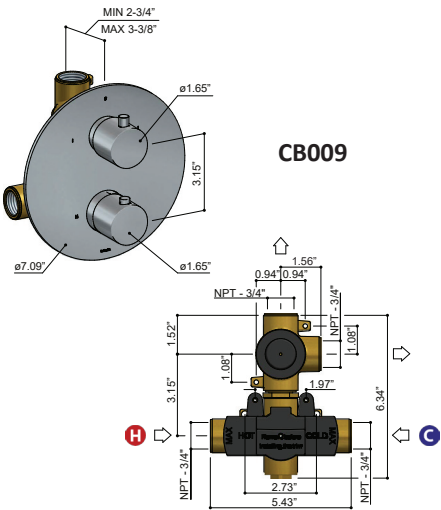
TO A MAXIMUM CHARGE OF TEMPERATURE OF _____ °F.

ANY CHANGES TO THIS SETTING MAY INCREASE THE DISCHARGE TEMPERATURE AND COULD RISK SCALDING OF THE USER.

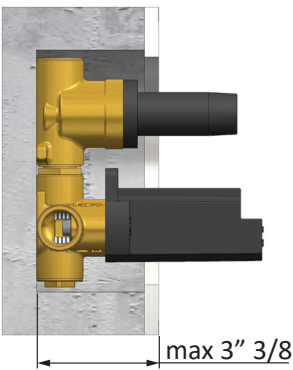
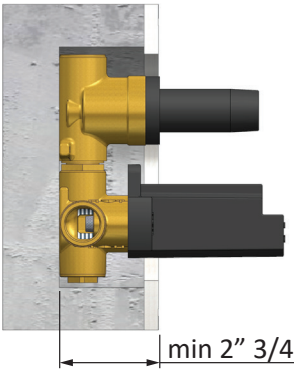
DATE _____

CAUTION: Danger of scald injury. Valve can be recalibrated to provide higher temperature water. This valve has been preset at the factory to provide a range of water temperatures. Any change in settings or water inlet conditions from those used during calibration at the factory may raise the outlet temperature and may cause scalding. The responsibility for the proper installation and any recalibration of this valve lies with the installer.

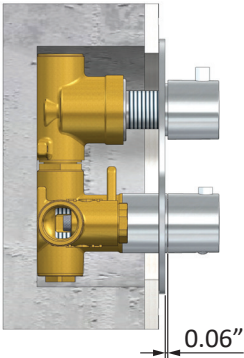
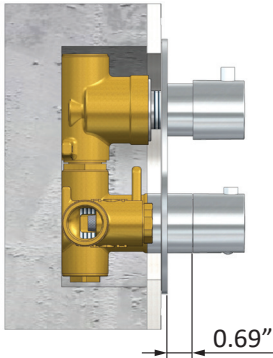
DIMENSIONAL DRAWINGS AND INSTALLATION DEPTH



Consider the thickness of the final coating (tiles, marble etc.)

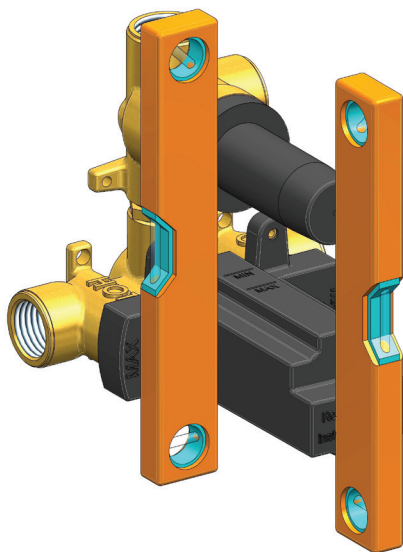


The plate slides from a minimum of 0.69" to a maximum of 0.06".

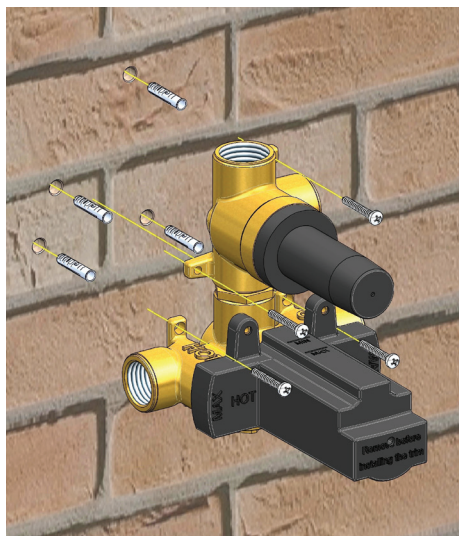


INSTALLATION OF CONCEALED BODY

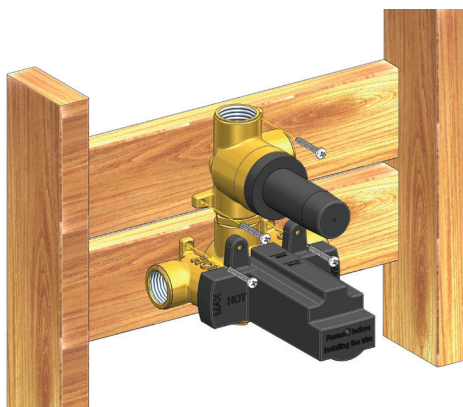
Use a level to find the correct position



For **in-wall installation**, drill the wall and use the appropriate anchors/fasteners to mount the valve body to the wall



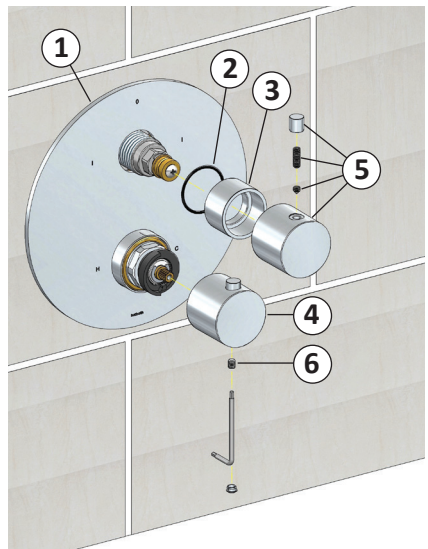
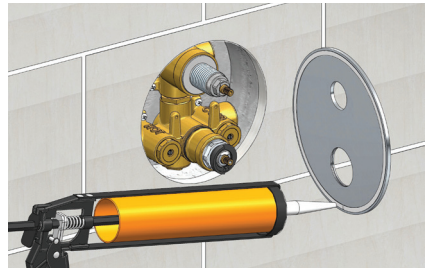
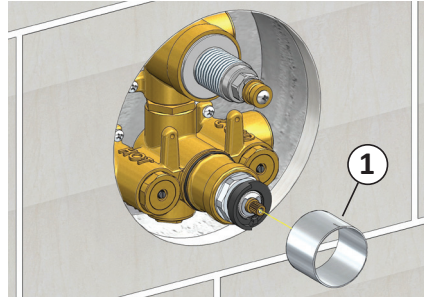
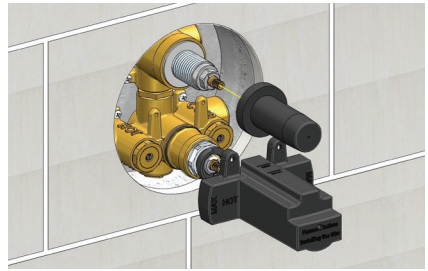
For **frame installation**, use appropriate fasteners to mount the valve body to the framing



INSTALLATION OF TRIM PARTS

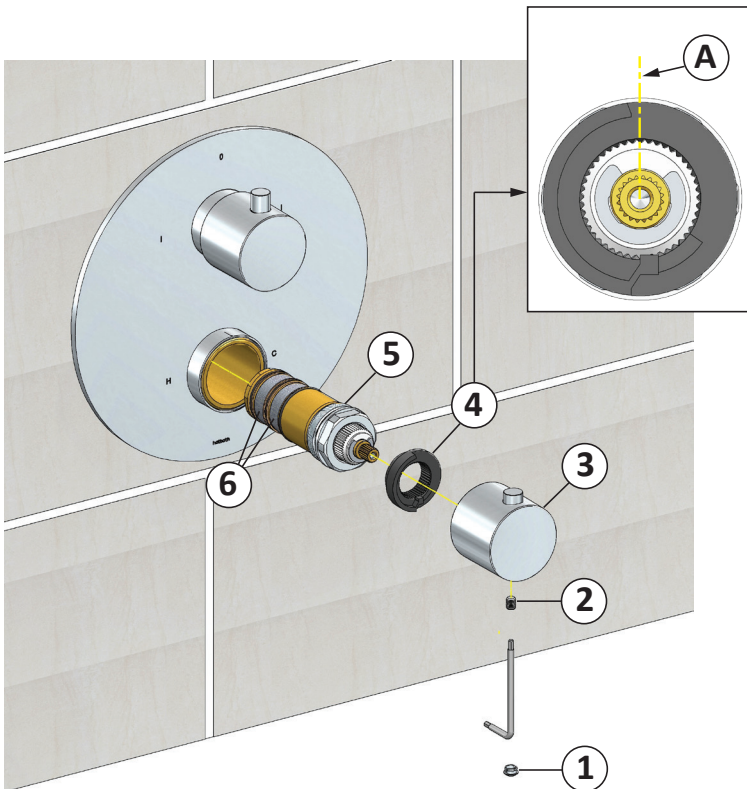
- Remove the protection from the mixer
- Install the escutcheon (1) over the temperature control
- Apply a bead of silicone to the back of the trim plate and gently push into position
- Fit the O-ring (2) in the escutcheon (3)
- Install the escutcheon (3) over the diverter, gently tightening to lock the trim plate into place
- Install the temperature control handle (4) and the diverter control knob (5). Secure with set screw (6) using a 2.5mm Allen key

Check the vertical alignment of the diverter control knob. The pin should be pointing upwards (12 o'clock) in the shut-off position. If not, re-install the diverter control knob in the correct position



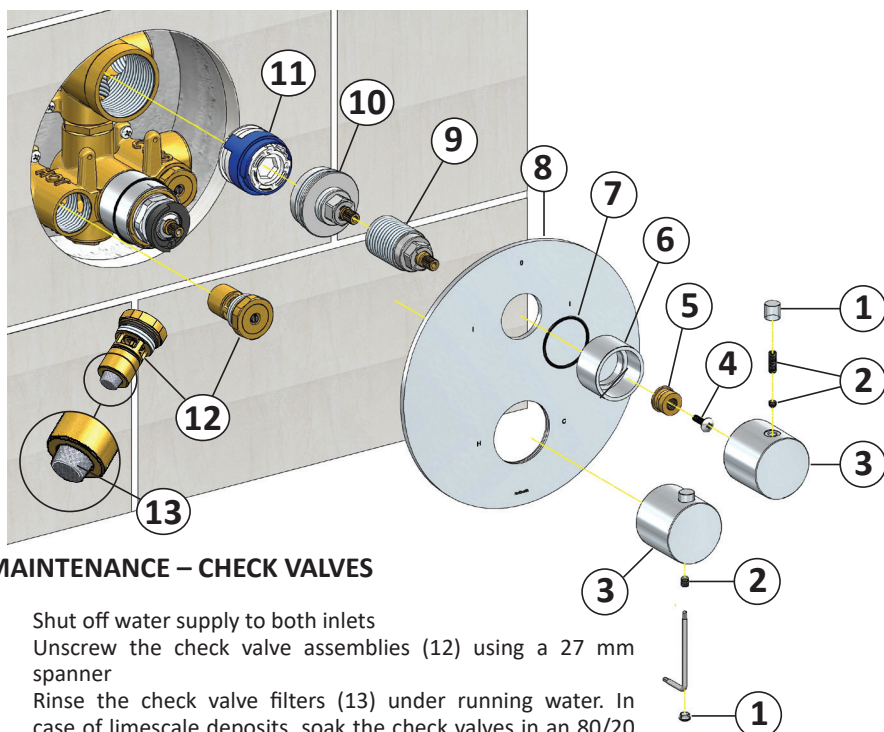
MAINTENANCE – THERMOSTATIC CARTRIDGE CLEANING OR REPLACEMENT

- Shut off water supply to both inlets.
- Remove the decorative plug (1) and set screw (2) using a 2.5mm Allen key. Remove the temperature control handle (3)
- Remove the safety stop (4) and unscrew the thermostatic cartridge (5) using a 30mm spanner
- Rinse the cartridge filters (6) under running water. In case of limescale deposits, soak the cartridge in an 80/20 solution of water and vinegar or a similar descaling agent
- Before reinstalling the cartridge, clean its housing using a wet cloth and grease the O-rings
- Screw the thermostatic cartridge (5) back into place
- Reinstall the safety stop (4) back into place, as shown in the detail
- Place the temperature control handle (3) back into position and use it to turn the spindle (A) until you reach a temperature of 100°F (check the water temperature using a thermometer)
- With the safety button pointing upwards (12 o'clock), lock the temperature control handle into position with the set screw (2). Reinstall the decorative plug (1)



MAINTENANCE – DIVERTING CARTRIDGE



















































- Shut off water supply to both inlets.
- Remove the decorative plug/pin (1) and set screws (2) using a 2.5mm Allen key
- Remove the temperature control handle and diverter control knob (3)
- Remove the screw (4) and brass bushing (5).
- Remove the escutcheon (6) carefully as to not lose the O-ring (7)
- Remove the trim plate (8)
- Unscrew the extension (9) and the retaining ring (10) using a 17 mm spanner.
- Remove the diverter cartridge (11).
- Before reinstalling the cartridge, clean its housing using a wet cloth and grease the O-rings
- Install the diverter cartridge (11) back into place by inserting the two pins into their respective seats
- Reinstall the retaining ring (10) and the extension (9) back into place using a 17mm spanner
- Reinstall the trim plate (8) back into place
- Reinstall the escutcheon (6) over the diverter, making sure the O-ring (7) is in place, and gently tightening to lock the trim plate into place
- Reinstall the brass bushing (5) and secure with the screw (4)
- Place the temperature control handle and diverter control knob (3) back into position and secure with the set screws (2).
- Reinstall the decorative plug/pin (1).



MAINTENANCE – CHECK VALVES

- Shut off water supply to both inlets
- Unscrew the check valve assemblies (12) using a 27 mm spanner
- Rinse the check valve filters (13) under running water. In case of limescale deposits, soak the check valves in an 80/20 solution of water and vinegar or a similar descaling agent
- Reinstall the check valves (12) back into place and tighten, exerting a maximum torque of 70-90 lbs/in

CLEANING

	✓			✗		WARNING
CR CHROME	 WATER ✓	 LIQUID SOAP ✓	 SMOOTH CLOTH ✓	 ABRASIVE SPONGE ✗	 ACID/ABRASIVE DETERGENT ✗	Inoxidizable plated finish
GN BRUSHED NICKEL	 WATER ✓	 LIQUID SOAP ✓	 SMOOTH CLOTH ✓	 ABRASIVE SPONGE ✗	 ACID/ABRASIVE DETERGENT ✗	Inoxidizable plated finish
NB NATURAL BRASS	 WATER ✓	 LIQUID SOAP ✓	 SMOOTH CLOTH ✓	 ABRASIVE SPONGE ✗	 ACID/ABRASIVE DETERGENT ✗	Natural metal finish: patina will form over time
BB BRUSHED BRASS	 WATER ✓	 LIQUID SOAP ✓	 SMOOTH CLOTH ✓	 ABRASIVE SPONGE ✗	 ACID/ABRASIVE DETERGENT ✗	Natural metal finish: patina will form over time
WH MATT WHITE	 WATER ✓	 LIQUID SOAP ✓	 SMOOTH CLOTH ✓	 ABRASIVE SPONGE ✗	 ACID/ABRASIVE DETERGENT ✗	Varnished finish: subject to scratches if not properly handled
BL MATT BLACK	 WATER ✓	 LIQUID SOAP ✓	 SMOOTH CLOTH ✓	 ABRASIVE SPONGE ✗	 ACID/ABRASIVE DETERGENT ✗	Varnished finish: subject to scratches if not properly handled
AI AGED IRON	 WATER ✓	 LIQUID SOAP ✓	 SMOOTH CLOTH ✓	 ABRASIVE SPONGE ✗	 ACID/ABRASIVE DETERGENT ✗	Plated finish: subject to scratches if not properly handled
BK BLACK CHROME	 WATER ✓	 LIQUID SOAP ✓	 SMOOTH CLOTH ✓	 ABRASIVE SPONGE ✗	 ACID/ABRASIVE DETERGENT ✗	Plated finish: subject to scratches if not properly handled
BBP BRUSHED BRASS PVD	 WATER ✓	 LIQUID SOAP ✓	 SMOOTH CLOTH ✓	 ABRASIVE SPONGE ✗	 ACID/ABRASIVE DETERGENT ✗	Inoxidizable PVD finish
BCP BRUSHED COPPER PVD	 WATER ✓	 LIQUID SOAP ✓	 SMOOTH CLOTH ✓	 ABRASIVE SPONGE ✗	 ACID/ABRASIVE DETERGENT ✗	Inoxidizable PVD finish

MAINTENANCE - Never use for any reason cleaning solutions containing abrasive substances, chloric acids, ammonia, vinegar, bleach, domestic acids, disinfectants, or any type of abrasive pad.
Warning! Incorrect cleaning may permanently ruin the surface of the products and in such case the manufacturer may not be held liable for damage.

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