

BENKISER

THERMOSTATIC MIXING VALVE



Installation
& maintenance
instructions.

General Information

- Designed for indoor use only. Do not expose to elements of nature.
- All plumbing and electrical connections must be made in accordance with AUS / NZ standards.

Warnings

- Read all instructions before attempting to install this system. It is recommended a qualified & registered plumber completes the install.
- Ensure pipe work is thoroughly flushed before installing the thermostatic mixing valve assembly. Components are susceptible to debris and require additional flushing compared to a standard plumbing fixture.
- Consideration should be given to any regulations relating to an air gap, an air break or double check valve to protect against back flow.

Operating Instructions and Parts Manual

Please read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage. Retain instructions for future reference.

Benkiser Thermostatic Mixing Valve

Quality thermostatic mixer 3/8" (or 1/2" included) with lead free brass composition. Safety features include scalding protection, with integrated back-flow preventer and strainer. Designed for installation under the basin/sink/trough to provide a consistent and safe water temperature to tapware.

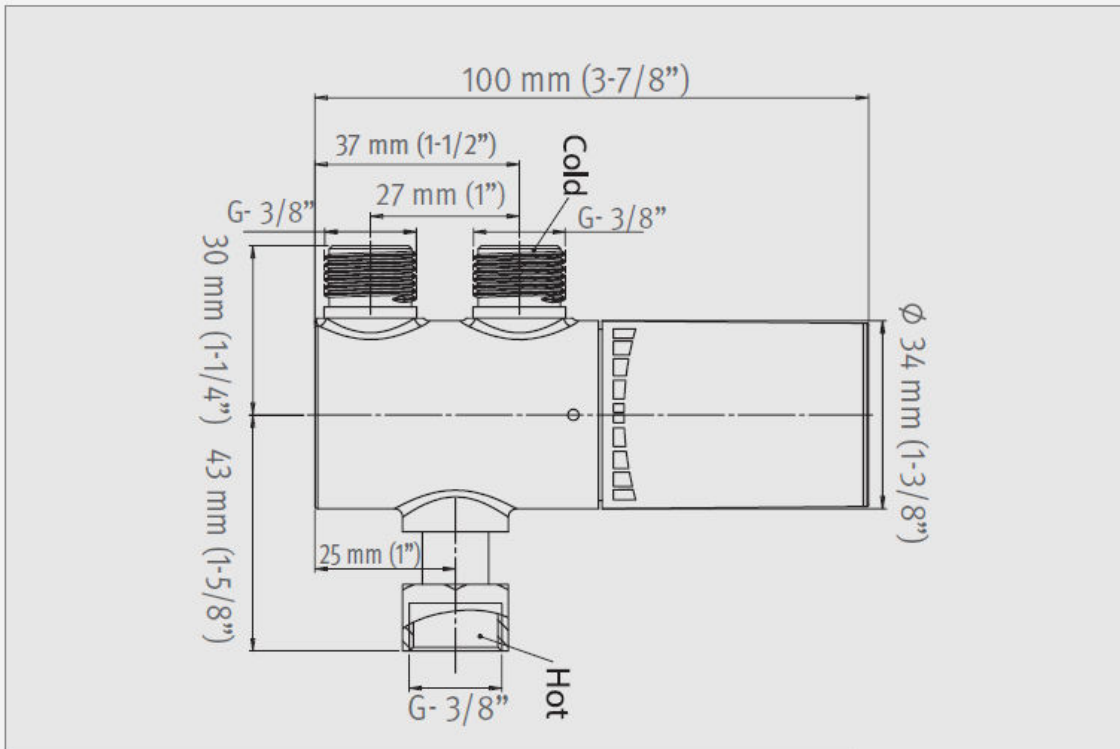
Specifications

Material	Brass (CW724R - lead free)
Finish	Chrome
Hot Water Supply	Maximum 80°C
Temperature Range	30°C - 70°C (Lockable)
Working Pressure	50 - 500kPa (0.5 - 5.0 bar)
Flow Rate	25 l/min (3 bar)
Outlets	1-5 sanitary points (depending on flow rates)
Back-flow prevention	Integrated back-flow preventer
Inlet / Outlet	G 3/8 DN10 (1/2" DN15 adapters included)
Dimensions	100 x 34 x 73 mm - weight 0.28kg
Warranty	24 months
Product Code	BEN-TMV

Planning

- Our mixing valves must be installed by professional installers in accordance with current local regulations and the specifications of the hydraulic engineer.
- Sizing the pipes correctly will avoid problems of flow rate, pressure loss and water hammer.
- Protect the installation with filters, water hammer absorbers and pressure reducers to reduce the frequency of maintenance (recommended pressure from 0.5 - 5 bar (50 to 500 kPa) maximum).
- Install stopcocks or angle valve close to the TMV to facilitate maintenance.
- The pipework, filters, non-return valves, stopcocks, bib taps, and all sanitary fittings should be checked at least once a year, and more frequently if necessary.

TECHNICAL DATA



THERMOSTATIC MIXING VALVE II 3/8"

3515050

Minimum water operation pressure	0.5 bar (7 PSI)
Maximum water operation pressure	5.0 bar (72.5 PSI)
Maximum Hot water temperature	70°C

PREPARATION FOR INSTALLATION

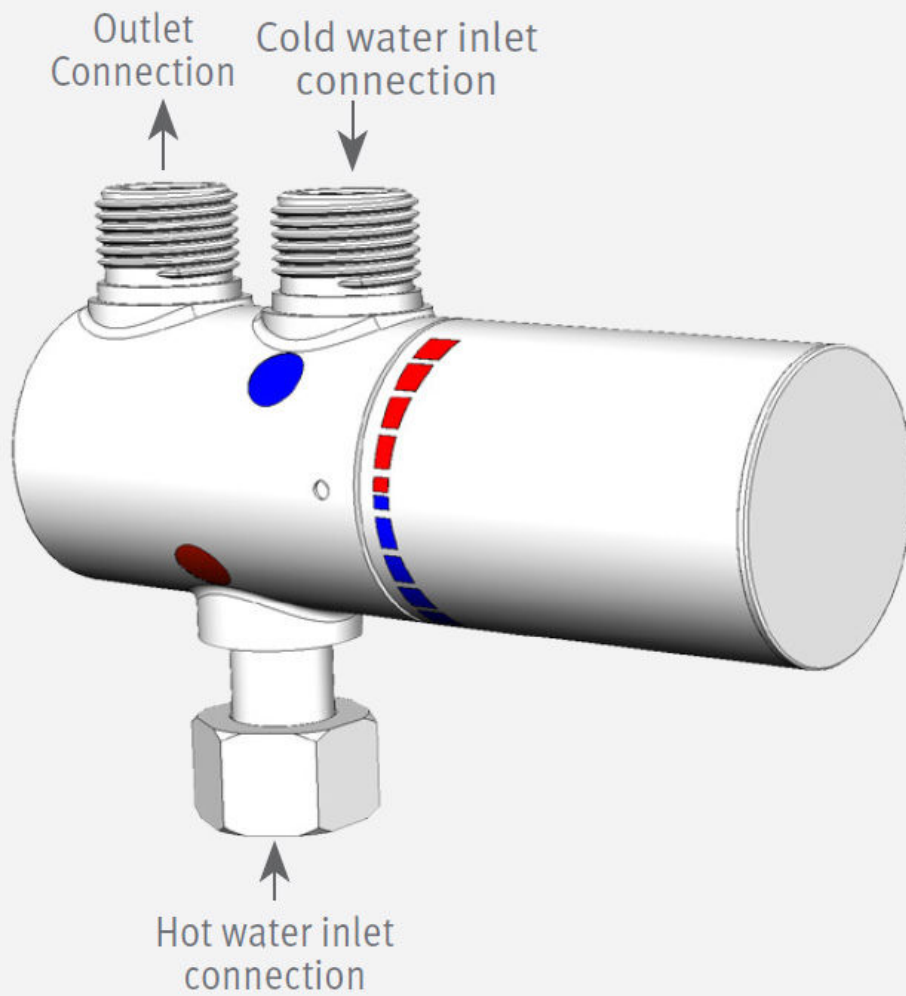
Flush water supply lines thoroughly before installing the mixing valve. Do not allow dirt, Teflon tape or metal particles to enter the mixing valve. Shut off water supply.

IMPORTANT

Isolation valves should be fitted in an accessible location prior to the mixing valve. All plumbing is to be installed in accordance with applicable codes and regulations.

PACK CONTENTS

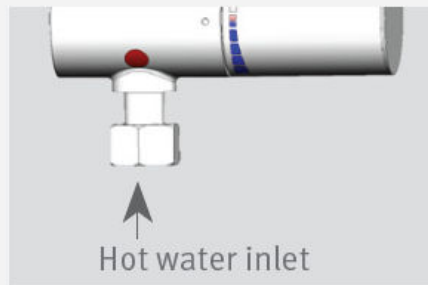
Familiarize yourself with the part names and confirm that the parts are included:



INSTALLATION

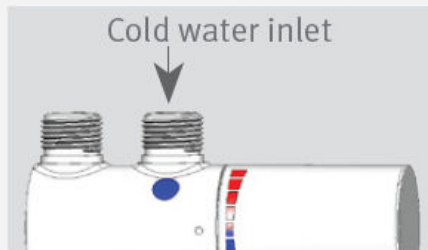
1

Connect the hot water inlet to the hot water mains.



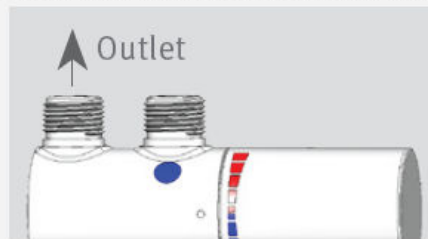
2

Connect the cold water inlet to the cold water mains.



3

Connect the outlet to the faucet.



If you have purchased the connection kit, see page 24.

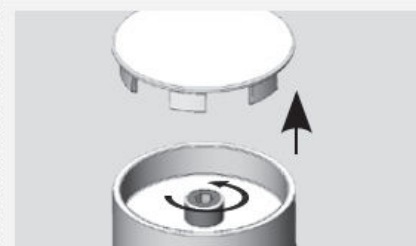
IMPORTANT: Verify with an accurate thermometer that the mixing valve calibration matches the site conditions. If it does not, proceed to adjusting the temperature as described on page 26.



MAINTENANCE & ADJUSTMENTS

REMOVING THE CAP

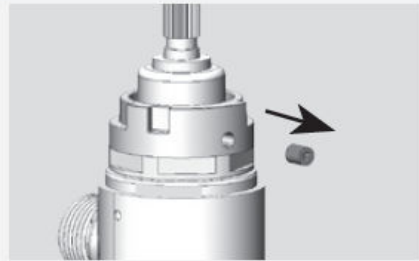
To remove the cap pop of the cap cover to access the screw. Use Allen Key to remove the screw.



MAINTENANCE & ADJUSTMENTS

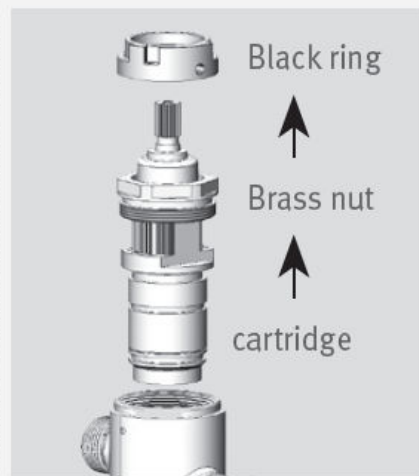
ACCESSING THE FILTER

1 Remove screw



2

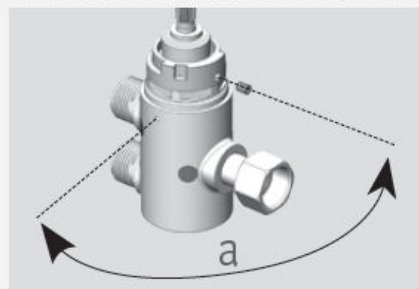
- Remove the black ring and brass nut.
- Pull the cartridge from body to expose the filter.
- Reassemble in reverse order.(see below for ring position)



SETTING THE TEMPERATURE

Note: The positioning of the black ring sets the maximum temperature.

1 Align the black ring
 $a = 90^\circ$
Tighten screw.



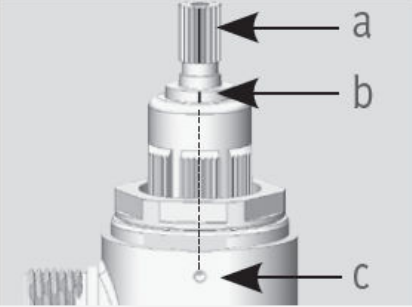
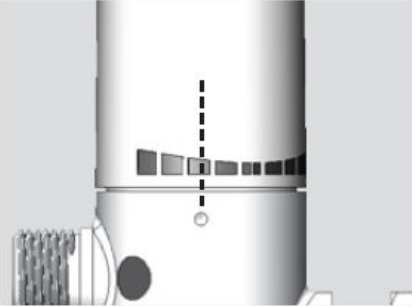
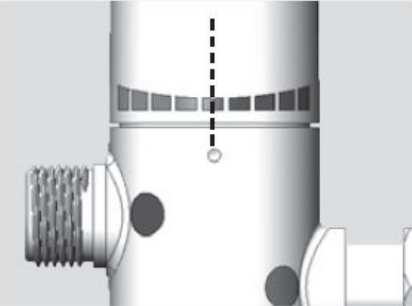
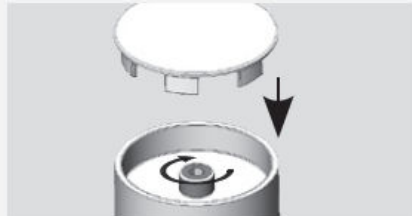
NOTE: Temperature is set based on input conditions as follows:

Inlet pressure: 3 bar

Inlet Temp: HOT : 60 - 65°C , USA /Canada - 80 - 85 °C

COLD : Max 30°C

MAINTENANCE & ADJUSTMENTS

<p>2</p>	<p>Align gear knob (a) so that the mark on the knob is aligned with the notches on the cartridge (b) and on the valve body (c).</p>	
<p>To lock temperature see section below</p>		
<p>3</p>	<p>Assembly position for Max 40°C Place cap on the cartridge so that the third red bar aligns with the mark on the valve body</p>	
<p>3</p>	<p>Assembly position for the US Max 46°C Degrees: Place cap on the cartridge so that the middle temperature mark aligns with the mark on the valve body.</p>	
<p>4</p>	<p>Use the screw to secure the cap to the valve. Place the cap cover on the cap.</p>	

MAINTENANCE & ADJUSTMENTS

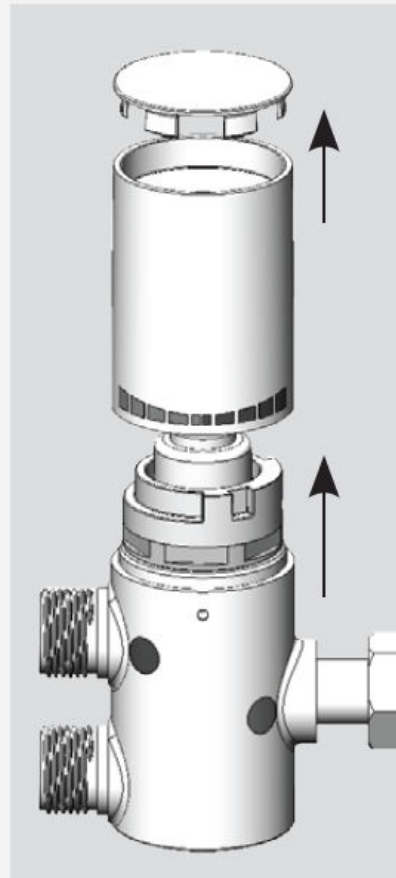
THERMAL DISINFECTION

1 Remove the screw and cap

Use the cap to adjust the thermostatic cartridge to the max. temperature.
(Prevent overtightening the cartridge!)

2 Thermal disinfection acc. to work sheet W551 70°C for at least 3 minutes.
DANGER of scalding!

3 Reset the temp according to the previous section.



MAINTENANCE & ADJUSTMENTS

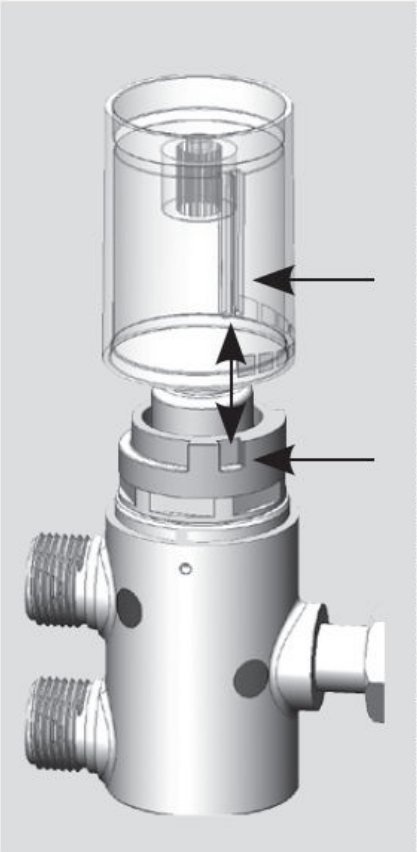
LOCKING THE TEMPERATURE

1

Locking the temperature:
Turn the knob and use a thermometer to set the desired temperature.

2

Place the cap so that the ridge inside the cap aligns with the notch in the black ring. To ensure the temperature is locked, make sure the cap does not turn. Use screw to secure the cap on the valve.



Supreme Comprehensive Warranty

Your Thermostatic Mixing Valve is fully guaranteed against defective materials and faulty workmanship commencing from the date of sale (according to SPL's records), subject to it being installed and maintained in accordance with the manufacturer's instructions.

SPL (2021) Limited warrants that should any part of the sensor tap fail within the given warranty period (24 months), it will be remedied by SPL. The tap should be returned to SPL (2021) Limited for all warranty claims. The cost of cartage will be payable by the customer.

Due to the significant variation in tradesmen's knowledge, experience, and productivity, labour charges will NOT be accepted unconditionally. We strongly recommend contacting our office for advice before proceeding with any warranty repairs.

This warranty excludes:

- Incorrect installation, or installation that does not specifically follow the installation guidelines supplied
- Defects arising from improper installation, or incorrect electrical supply where applicable
- Failure to follow manufacturer's maintenance instructions
- Damage/Failure resulting from:
 - the use of non-authorized parts
 - authorized parts not installed in accordance with the manufacturer's instructions
 - accidental damage, negligent use, misuse, vandalism, neglect
 - damage caused either directly or indirectly by external sources (incorrect power supply, natural disaster, or insect infestation)
- Water ingress caused by property maintenance or flooding
- Negligent cleaning practices (water ingress, harmful chemical etc)

The above includes consequential damage to any other goods, furnishings, or property.

- Normal wear and tear and consumable parts (batteries etc)
- This warranty does not displace any statutory warranty in relation to the tap but any liability of SPL (2021) Limited under any statutory warranty will be limited to a replacement or repair of the tap or payment of the cost of such replacement or repair at the sole discretion of SPL (2021) Limited

Note:

- Warranty only extends to products purchased and installed in New Zealand.
- Contamination or poor water quality is not covered by product warranty.
- Damage to solenoid caused by inadequate flushing or excess water pressure is not covered by the product warranty.

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