

THERM-OZ

SHOWERS PTY LTD

www.therm-oz.net.au

INSTALLATION INSTRUCTIONS

PLEASE READ THROUGH ALL PAGES BEFORE YOU START.

- **PAGE 1. FIXING BRACKET & CONNECTIONS**
- **PAGE 2. SHOWER VALVE CT100 AND CHROME SHROUDS**
- **PAGE 3. SLIDE RAIL KIT**
- **PAGE 4. USER INSTRUCTIONS**
- **PAGE 5. THERMAL SHUT-OFF FEATURE**
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2 YEAR WARRANTY ON ALL PARTS AGAINST DEFECTS IN PERFORMANCE.

TO BE FITTED BY A QUALIFIED PLUMBER

**INSTALLATION IS SUBJECT TO THE REQUIREMENTS OF THE APPLICABLE REGULATORY AUTHORITY,
THE NATIONAL CONSTRUCTION CODE VOLUME THREE- PLUMBING CODE OF AUSTRALIA.
AUSTRALIAN STANDARD AS4032.4: 2014 WATERMARK LICENSE WMK26224**

NOT TO BE FITTED WHERE FREEZING MAY OCCURE

RECOMMENDED INLET PRESSURE BETWEEN 100 AND 500 kPa

If inlet pressure exceeds 500kPa, install a pressure reducing valve soon after incoming mains supply.

INLET COLD WATER TEMPERATURE BETWEEN 8 and 29°C to obtain set mixed water temperature

INLET HOT WATER TEMPERATURE BETWEEN 55 and 85°C to obtain set mixed water temperature.

If inlet temperature exceeds 85°C, check hot water system thermostat.

**CAN BE FITTED WITH A COMBINATION BOILER, MAINS PRESSURE UNVENTED OR INSTANTANEOUS
HOT WATER SYSTEMS WITH BALLANCED PRESSURES**

**MIXED OUTLET WATER TEMPERATURE RANGE BETWEEN 20 AND 45°C at recommended
inlet temperatures**

CYLINDRICAL SURFACE MOUNTED CHROME VALVE 295mm LONG, 38mm DIAMETER

SAFETY STOP SET FEATURE @38°C WITH INTERNAL SAFETY THERMAL SHUT OFF.

DO NOT USE ABRASIVE CLEANING PRODUCTS.

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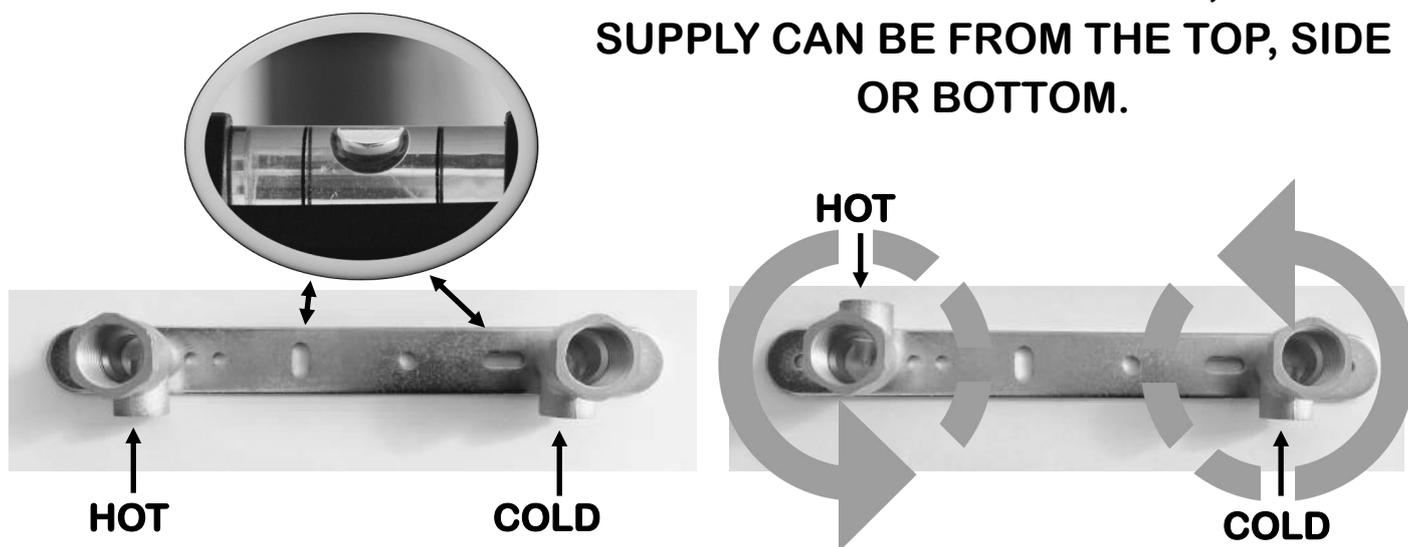
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FIXING BRACKET

POSITION THE FIXING BRACKET ON THE WALL
APPROXIMATELY 100-110 CM FROM THE FLOOR AND LEVEL.

HOT SUPPLY MUST ALWAYS BE ON THE LEFT, AND COLD ON THE RIGHT.

THE CONNECTIONS ROTATE, WATER
SUPPLY CAN BE FROM THE TOP, SIDE
OR BOTTOM.

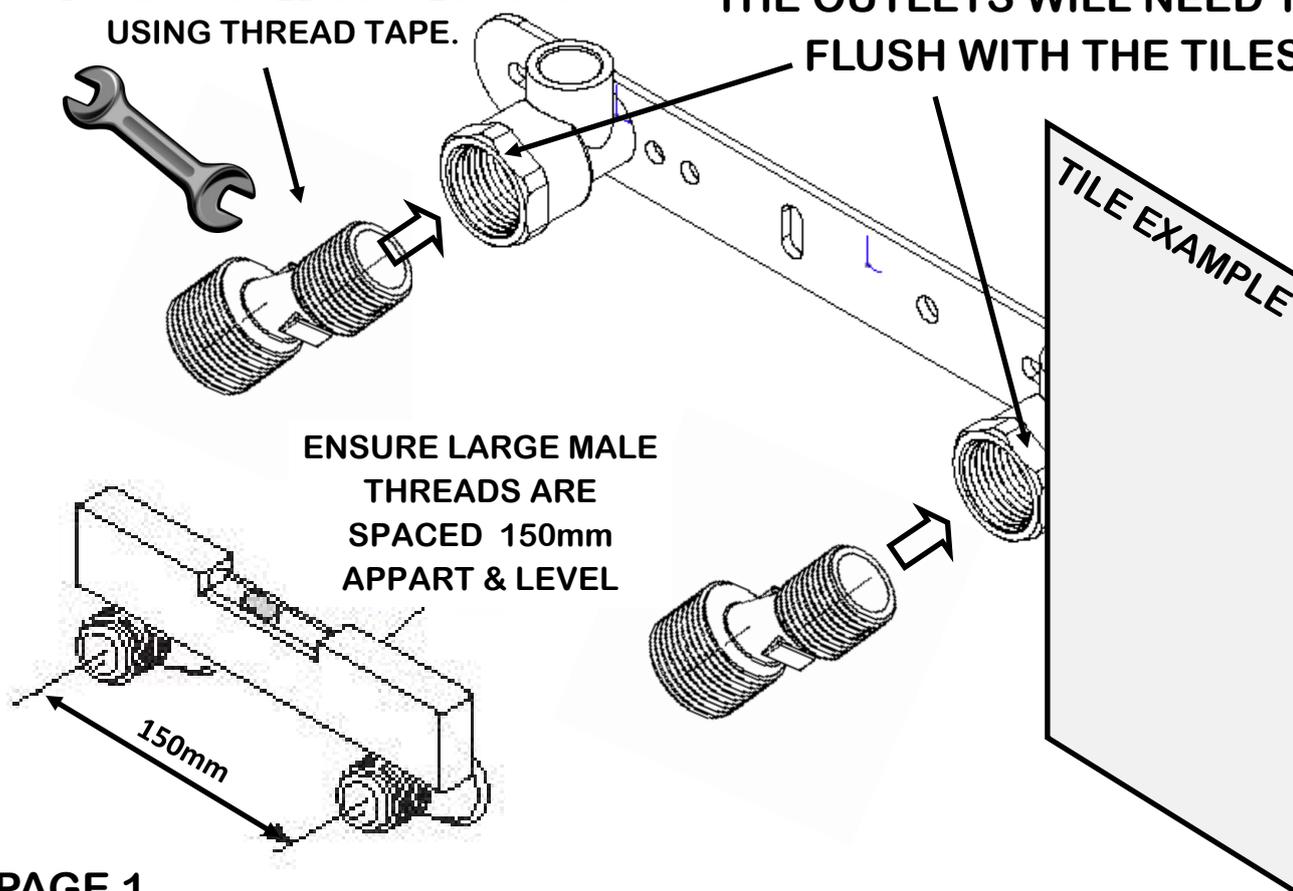


SOLDER PIPE CONNECTIONS. FLUSH THROUGH TO ENSURE PIPES ARE
FREE FROM DEBRIS BEFORE VALVE IS CONNECTED.

IMPORTANT.

WIND IN CRANCKED CONNECTIONS
USING THREAD TAPE.

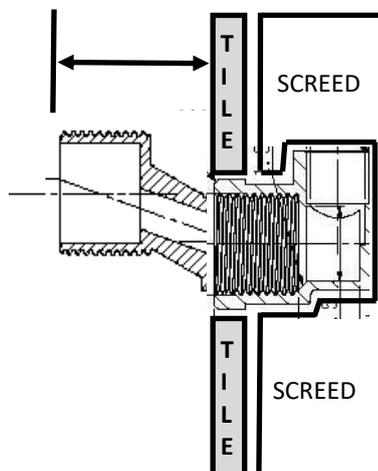
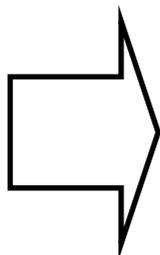
THE OUTLETS WILL NEED TO BE
FLUSH WITH THE TILES



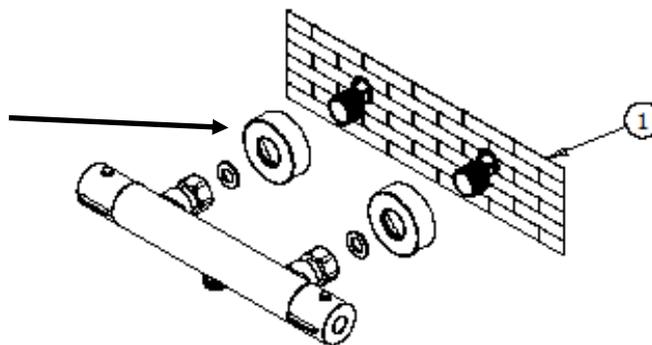
SCREED AND TILE BEFORE CONNECTING THERMOSTATIC VALVE

TO PROTECT THE THREADS FROM SCREEDING AND TILING,
USE 2 BRASS 3/4" CAPS, OR SIMILAR FEMALE FITTINGS.
REMOVE THESE ONCE TILING IS COMPLETE.

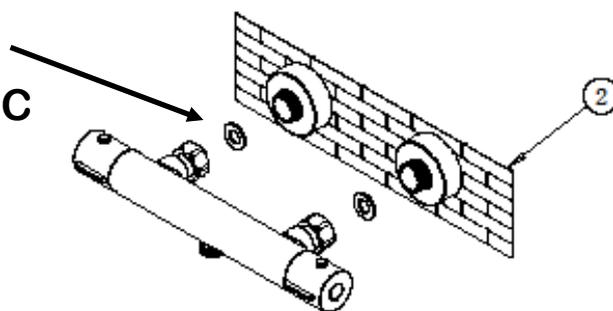
REMEMBER TO LEAVE
ENOUGH OF THE
CONNECTION EXPOSED



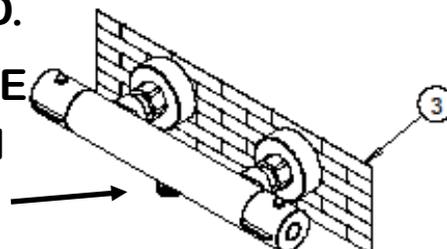
SCREW CHROME COVERS
OVER MALE THREADS



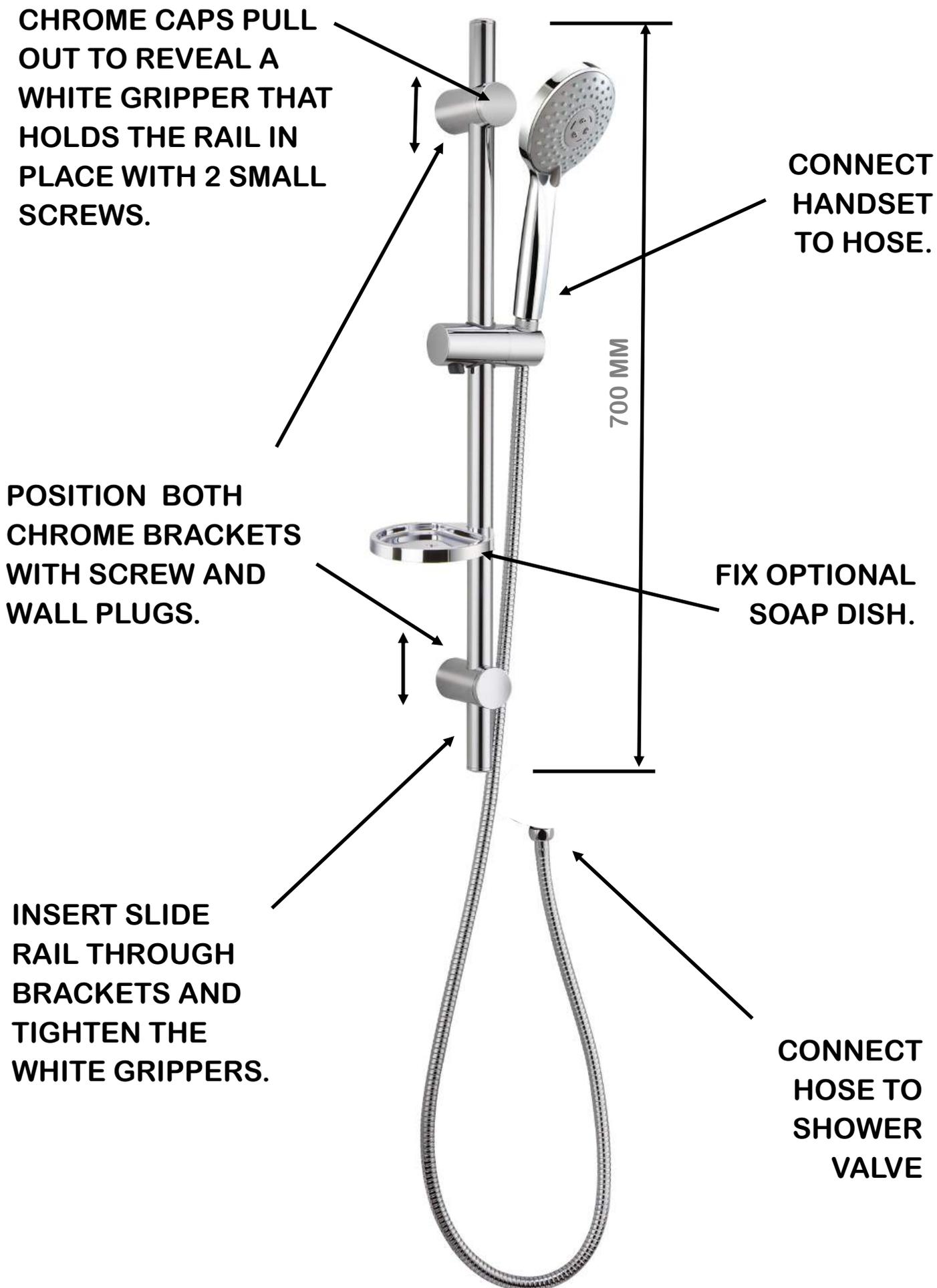
USING RUBBER WASHERS
CONNECT THE THERMOSTATIC
VALVE ON TO THE MALE
THREADS



THERMOSTATIC VALVE IS NOW FITTED.
POSITION & FIX SLIDE RAIL KIT ON THE
WALL & CONNECT HOSE TO BOTTOM
OF THERMOSTATIC VALVE



SEE PAGE 3



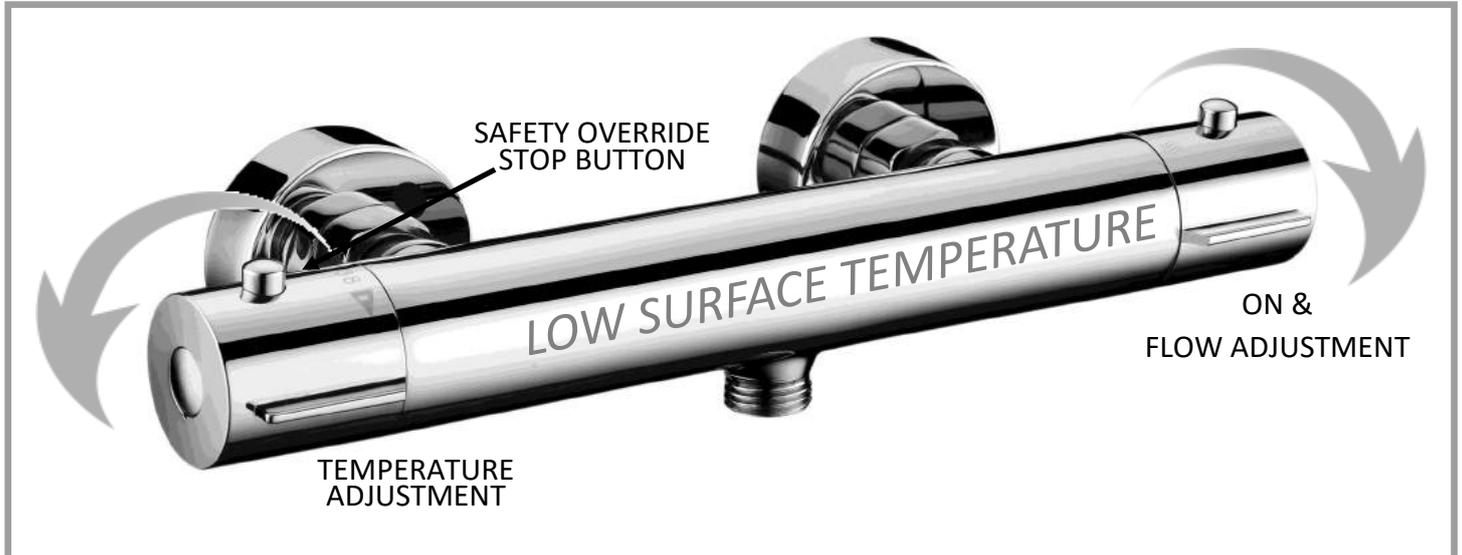
BEWARE OF PIPES IN THE WALL WHEN DRILLING

TO START THE SHOWER, ROTATE THE RIGHT HANDLE.

A FULL QUARTER TURN, IS FULL FLOW.

ROTATE IN THE OPPOSITE DIRECTION TO DECREASE OR STOP FLOW

THE BUTTON ON THIS HANDLE IS NOT FUNCTIONAL, AND IS FOR AESTHETICS ONLY.



THE TEMPERATURE IS CONTROLLED BY ROTATING THE LEFT HANDLE.

FOR SAFETY REASONS, THE MIXED TEMPERATURE IS LIMITED TO 38°C
BY THE SAFETY OVERRIDE STOP BUTTON.

TO OBTAIN A HIGHER MIXED WATER TEMPERATURE, PRESS THE
OVERRIDE BUTTON AND ROTATE HANDLE.

FOR A COOLER SHOWER THAN 38°C, ROTATE HANDLE IN THE OPPOSITE
DIRECTION. THE SAFETY BUTTON WILL AUTOMATICALLY RE-SET.

THE SURFACE TEMPERATURE OF THIS VALVE IS SAFE TO TOUCH OR
HOLD WHILST SHOWERING AND WILL GET NO HOTTER THAN 20°C
WHEN AT 38°C SETTING.

THE VALVE HAS AN INTERNAL SAFETY THERMAL SHUT-OFF

SEE PAGE 5 FOR DEALS OF THIS FEATURE

TO HELP MAINTAIN THE APPEARANCE OF THE SHOWER VALVE, IT IS GOOD PRACTICE TO WIPE
CLEAN AND DRY WITH A DRY SOFT CLOTH AFTER USE.

TIP TO SAVE WATER. TURN ON SHOWER, GET WET. TURN OFF SHOWER AND WASH WITHOUT
WATER RUNNING. TURN SHOWER BACK ON TO RINSE OFF.

This is a safety feature for Thermostatic valves manufactured to Australian Standard AS4032.4-2014

Basic terms, should the Cold or Hot water supply suddenly fail, the mixing valve will shut off , preventing harm or thermal shock.

This valve CT100 complies with Clauses 4.4.2 and 4.4.3 of the above standard.

Explanation as written in the standard AS4032.4 as follows;

Cold water isolation

When tested in accordance with Appendix D, the thermal shut-off under cold water isolation of each thermostatic tap, when pre-adjusted to supply mixed water at temperatures of 38+/-2°C, 45+/-2°C and the manufacturer's nominated maximum setting, shall not exceed the temperature rises and durations given in Table 4.1 during both the period of shut-off of the cold water supply and immediately following the restoration of the cold water supply.

The mixed water shall stabilize to within 2°C of the preset temperature, in not more than 20.0 seconds following restoration of the cold water supply.

Heated water isolation

When tested in accordance with Appendix D, the thermal shut-off under heated water isolation of each thermostatic tap, when pre-adjusted to supply mixed water at temperatures of 38+/-2°C, 45+/-2°C and the manufacturer's nominated maximum setting, shall not exceed the temperature rises and durations given in Table 4.1. of the standard AS4032.4

The amount of water discharged following thermal shut-off under heated water isolation of each thermostatic tap shall not exceed 0.75 L within 5–35 seconds following heated water supply isolation.

The mixed water shall stabilize to within 2°C of the preset temperature, in not more than 20.0 seconds following restoration of the heated water supply.

Dynamic pressure ration , after Hot water isolation endurance test

	Operating Temp °C		Dynamic Pressures kPa	
	Nominated Cold water Supply 15+5°C	Nominated Hot water Supply 65+2°C	Nominated Cold water Supply 300+10 kPa	Nominated Hot water Supply 300+10 kPa
Temp Set	Actual	Actual	Actual	Actual
38+1°C	16.2	63.7	303	301
45+1°C	18.5	63.2	302	298

Dynamic pressure ration , after Cold water isolation endurance test

	Operating Temp °C		Dynamic Pressures kPa	
	Nominated Cold water Supply 15+5°C	Nominated Hot water Supply 65+2°C	Nominated Cold water Supply 300+10 kPa	Nominated Hot water Supply 300+10 kPa
Temp Set	Actual	Actual	Actual	Actual
38+1°C	17.3	64.9	302	298
45+1°C	17.2	65.0	300	301

CARE INSTRUCTIONS

WHEN CLEANING CHROME PRODUCTS, USE ONLY A MILD DETERGENT, RINSE AND WIPE DRY WITH A SOFT CLOTH. IDEALLY CLEAN AFTER EACH USE TO MAINTAIN APPEARANCE.

NEVER USE ABRASIVE, SCOURING POWDERS OR SCRAPERS.

NEVER USE CLEANING AGENTS CONTAINING ALCOHOL, HYDROCHLORIC ACID, SULPHURIC ACID, NITRIC ACID, PHOSPHORIC ACID OR ORGANIC SOLVENTS.

USE OF INCORRECT CLEANING PRODUCTS/ METHODS MAY RESULT IN CHROME DAMAGE WHICH IS NOT COVERED BY THE MANUFACTURERS GUARANTEE.

TROUBLE SHOOTING

POOR FLOW OF WATER

- CHECK FOR ADEQUATE WATER PRESSURE
- CHECK FOR DEBRIS IN THE WATER INLETS
- CHECK FOR LIME SCALE BUILD UP. REMOVE THE MIXER / THERMOSTAT CONTROL AND DESCALE IF NEEDED (IN HARD WATER AREAS THIS MAY BE REQUIRED MORE OFTEN)

POOR TEMPERATURE CONTROL

TOO MUCH HOT OR COLD WATER

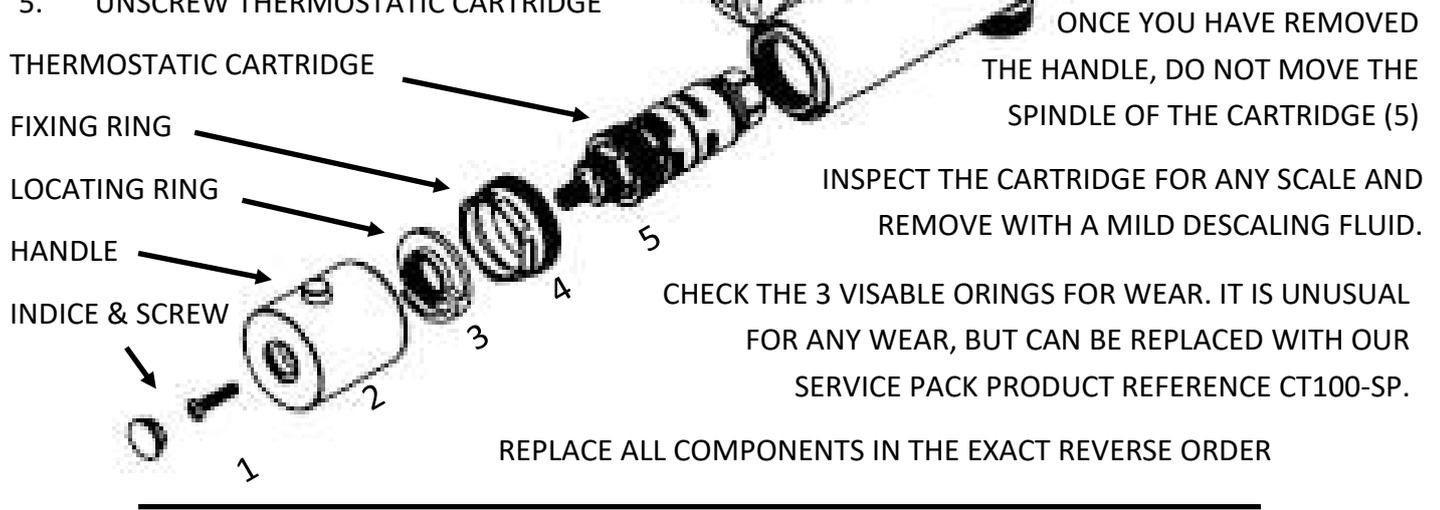
- CHECK WATER SUPPLY IS PROPERLY BALLANCED
- CHECK FOR LIME SCALE BUILD UP. REMOVE THE MIXER / THERMOSTAT CONTROL AND DESCALE IF NEEDED (IN HARD WATER AREAS THIS MAY BE REQUIRED MORE OFTEN)
- CHECK WATER SUPPLY FOR BLOCKAGES, CLEAN FILTERS, CHECK THAT INLETS ARE INSTALLED CORRECT I.E. HOT ON LEFT COLD ON RIGHT.

ONLY HOT OR COLD WATER FROM MIXER OUTLET

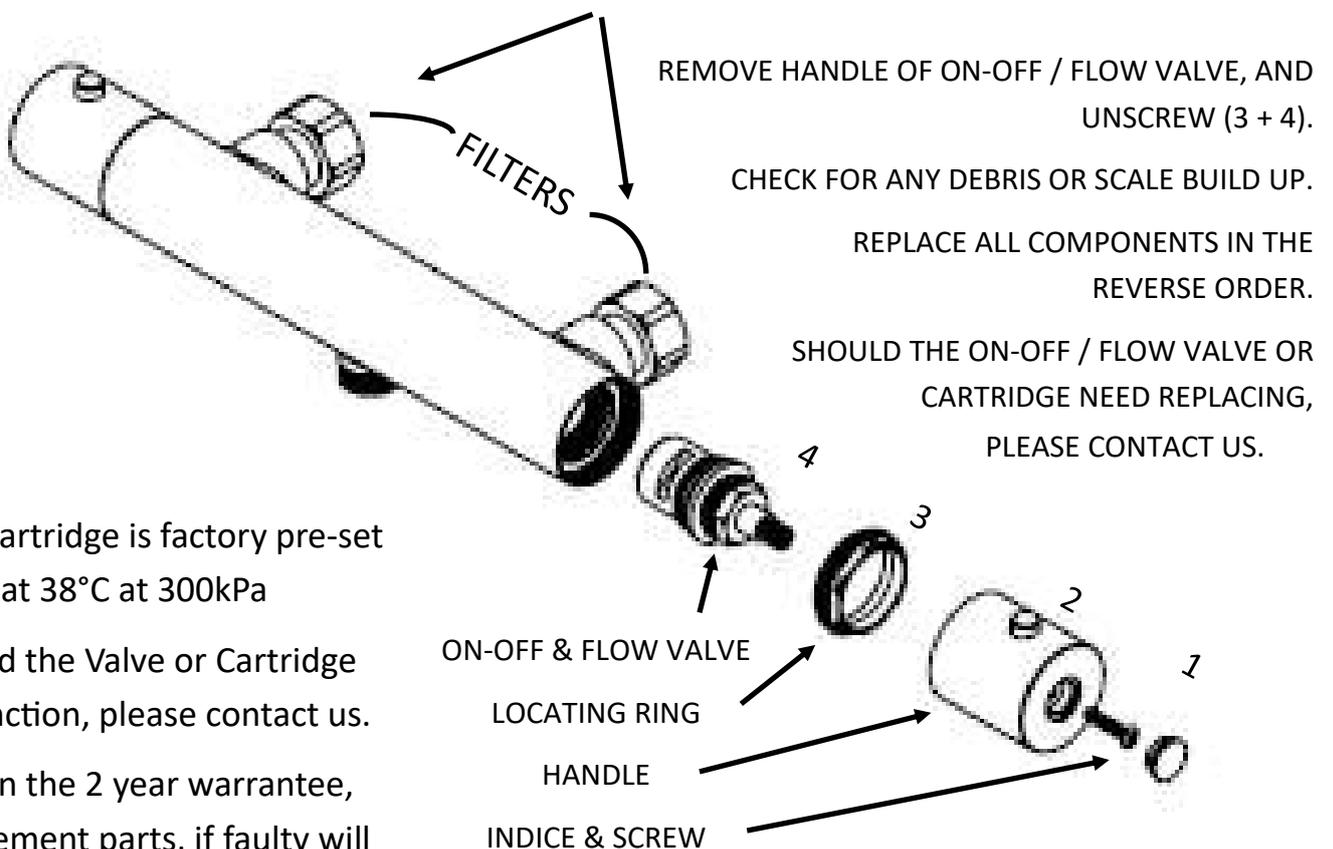
- CHECK WATER SUPPLY FOR BLOCKAGES, CLEAN FILTERS, CHECK THAT INLETS ARE INSTALLED CORRECT I.E. HOT ON LEFT COLD ON RIGHT.
- REMOVE THERMOSTATIC CARTRIDGE AND CHECK CONDITION I.E. SCALE OR DEBRIS. CLEAN FILTERS.

THE AUSTRALIAN STANDARDS RECOMENDS A REGULAR 12 MONTH SERVICE TO BE PERFORMED BY A QUALIFIED PLUMBER. ISOLATE BOTH HOT AND COLD WATER SUPPLY AND TURN ON THE RIGHT FLOW HANDLE TO RELEASE WATER PRESSURE.

1. REMOVE INDICE AND SCREW
2. WITH THE SAFETY BUTTON ON THE 38° MARK, PULL OFF HANDLE.
3. SLIDE OFF LOCATING RING, REMEMBER ITS LOCATION
4. UNSCREW FIXING RING
5. UNSCREW THERMOSTATIC CARTRIDGE



UNSCREW THE ENTIRE VALVE FROM THE WALL , CHECK AND CLEAN FILTERS INSIDE NUT OF ANY DEBRIS OR SCALE



Note: Cartridge is factory pre-set at 38°C at 300kPa

Should the Valve or Cartridge malfunction, please contact us.

Within the 2 year warrantee, replacement parts, if faulty will be sent free of charge.

**SILICONE LUBRICANTS MUST ONLY BE USED ON RUBBER SEALS
I.E. KLUBER LCA3801**

COMMISSIONING

PLEASE NOTE. THE THERMOSTATIC CARTRIDGE HAS BEEN CALIBRATED AT THE FACTORY AND SET AT 38°C AT 300 kPa . IF FOR WHAT EVER REASON THIS NEEDS TO BE RE-SET, PLEASE FOLLOW THESE INSTRUCTIONS.

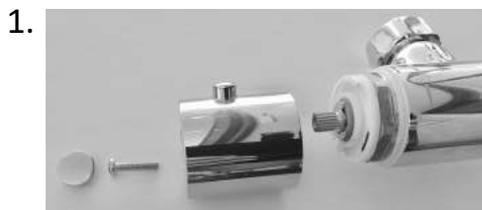
YOU WILL NEED A THERMOMETER



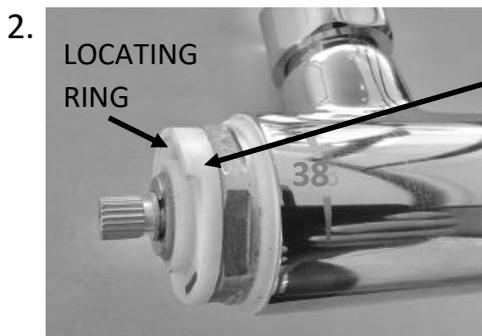
Remove the shower hose from the bottom outlet of the thermostatic valve.

With the Left handle positioned on the 38°C mark, turn the right handle to start flow and place thermometer into the running water.

If the temperature is less or more than 38°C turn off the flow then do as follows:

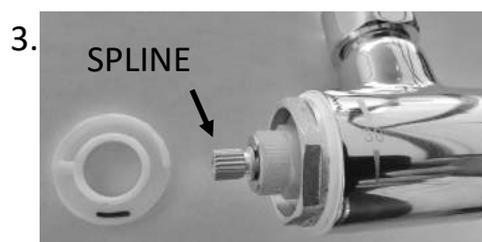


Remove Right handle, to expose Locating Ring (fig 1)



Note how the ridge of the locating ring is in line with the number 38. (fig 2)

Pull the locating ring off, but remember it will need to be replaced later, in the same position, with the ridge in line with the number 38.



Turn on the right handle to start the flow, and place the thermometer into the running water.

To obtain 38°C gradually rotate the spline in the direction it needs to be, to increase or decrease the temperature with your fingers (fig 4)



Once you have a delivered temperature of 38°C, turn off the flow and replace the locating ring as per fig 2.

Replace handle with the safety over ride button in line with the number 38. Replace shower hose to the outlet.

THE THERMOSTATIC MIXING VALVE IS NOW FULLY COMMISSIONED AND CALIBRATED TO 38°C .

PLEASE CONTACT US IF YOU HAVE ANY PROBLEMS