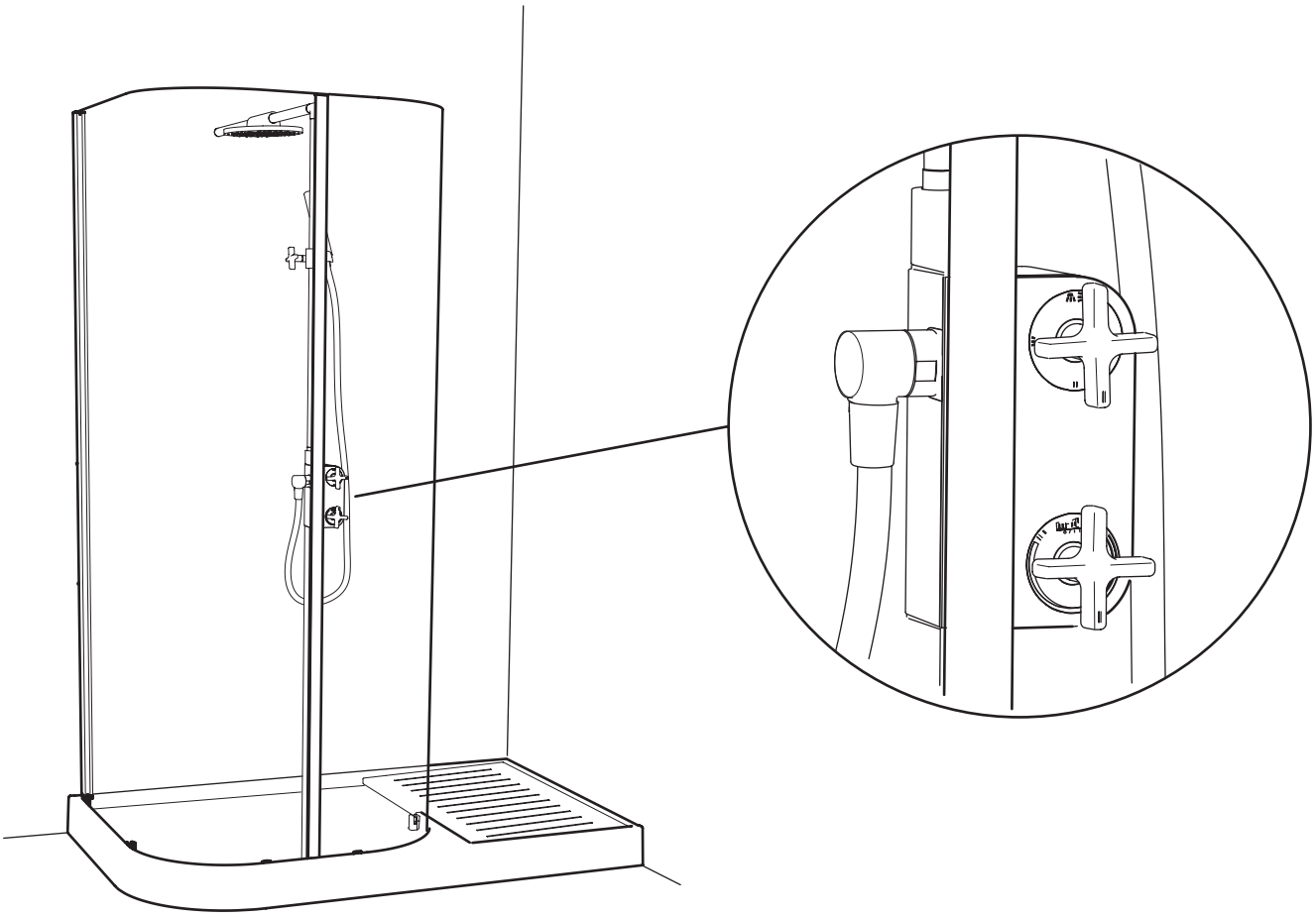
matki | SHOWERING

CURVED WALK-IN DUAL CONTROL THERMOSTATIC SHOWER MIXER * FOR SERIES WCD/WCR

*Patent applied for

INSTALLATION

PARTS LIST



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1.IMPORTANT

Before disposing of the carton and/or commencing assembly, please check all the parts to ascertain that none are missing and they are all undamaged. No claim for missing/damaged parts will be accepted once the packing carton has been disposed of and/or assembly has commenced. In case of query contact your Stockist with details of model number, finish and serial number.
Please read complete installation instructions before fitting.

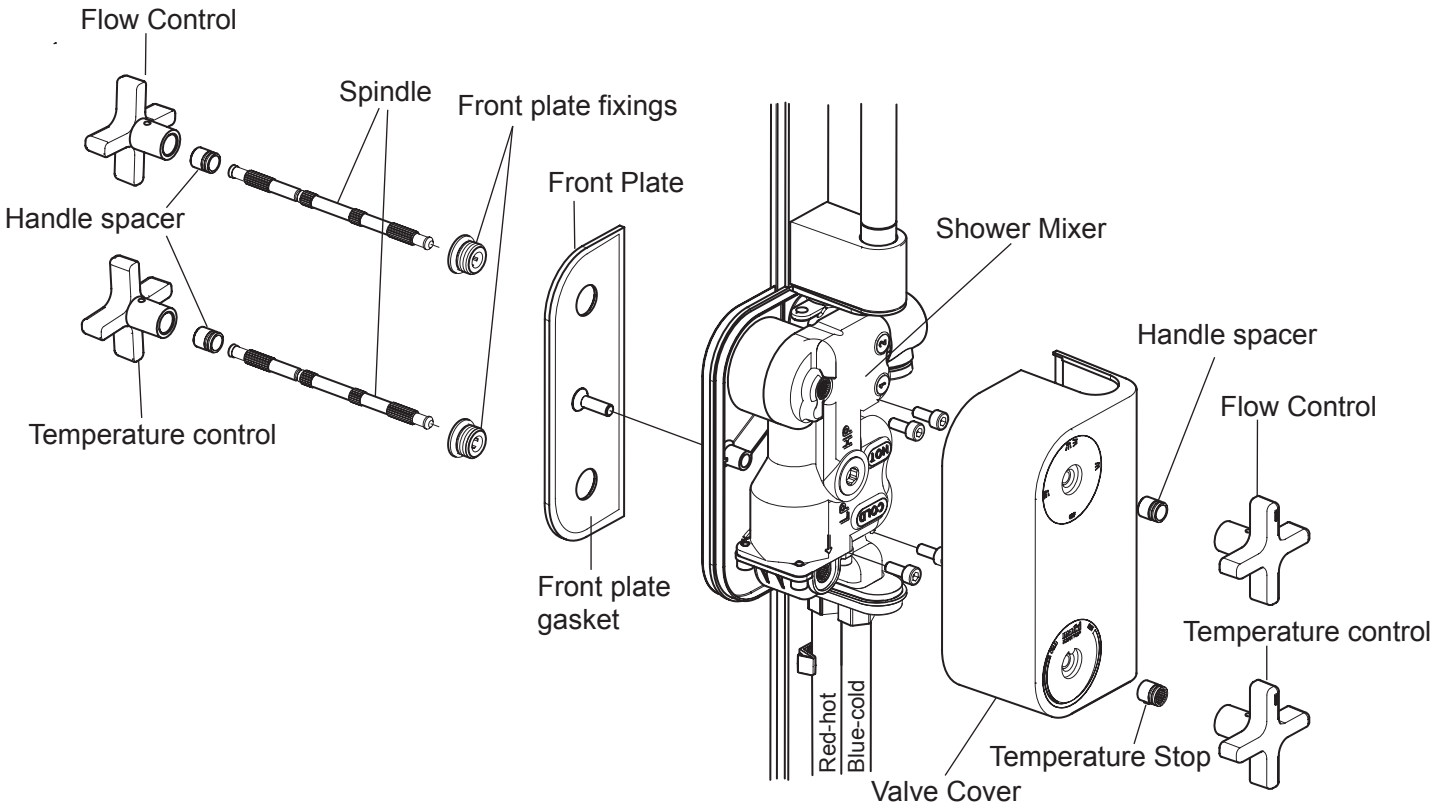
Specification.
The shower mixer will operate correctly with water pressures between 0.1 bar to 5 bar.
For pressures above 5 bar fit pressure reducers. The valve is suitable for standing water pressures up to 9 bar.
Optimum performance when inlet pressures are nominally balanced to within 10% of each other during flow.
Optimum performance is obtained when water **temperature differentials** of **20°C** or more exist between hot and cold. Temperature accuracy will be reduced at temperature differentials below **12°C**.
Recommended minimum Cold Water supply temperature: 3°C.
Recommended Maximum Hot Water supply Temperature 60-65°C.
The shower mixer can accept temporary elevated temperatures to 85°C without damage for reasons of general safety,
Hot water storage temperatures should be maintained between 60-65°C.

The valve is suitable for all water systems including
Gravity fed
Pumped Systems
Combination Boilers
Condensing Boilers
Mains Pressure fed Systems

Fit isolation valves to both HOT and COLD inlet supplies.

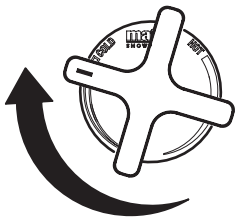
Most problems with any thermostatic shower mixer are caused by debris from new pipework getting into the thermostat when it is first installed. It is important to flush out all new pipework before commissioning.

CONFIGURATION

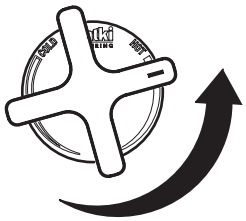


2.OPERATION

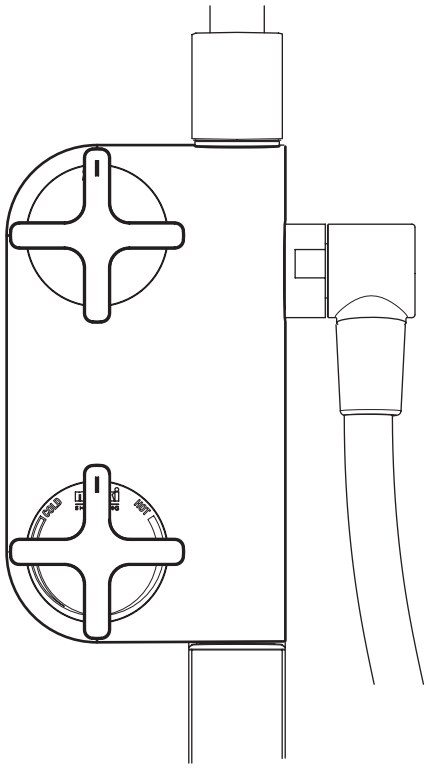
TEMPERATURE CONTROL



ROTATE CLOCKWISE FOR COLD

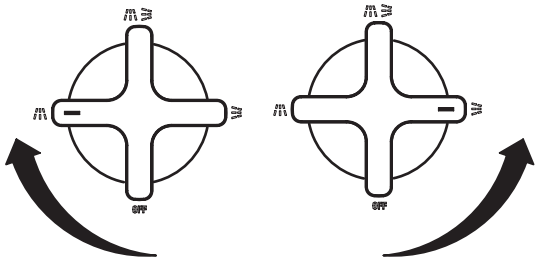


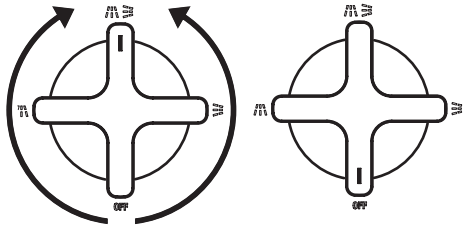
ROTATE ANTICLOCKWISE FOR HOT



FLOW CONTROL

OVERHEAD DELUGE **HAND SHOWER**

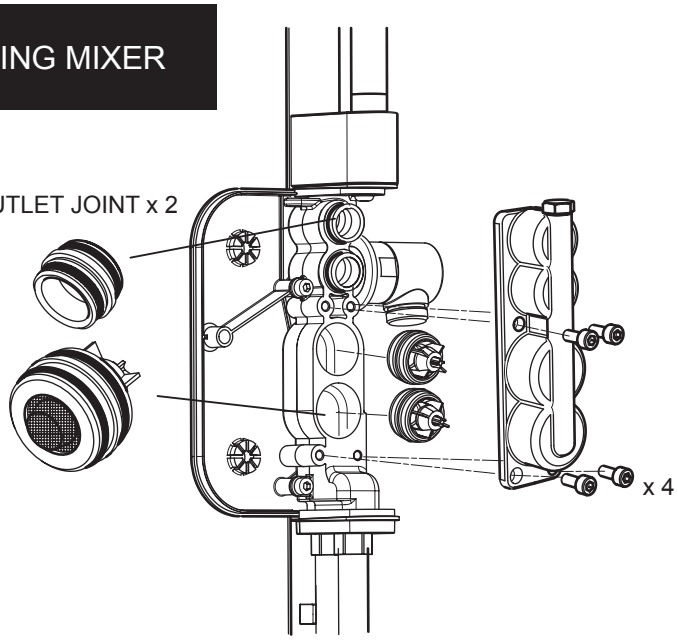




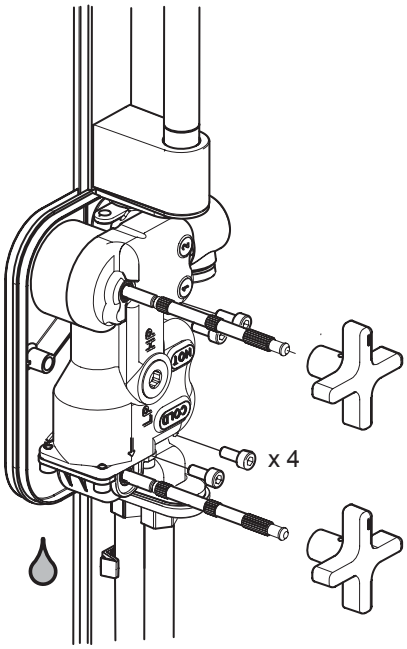
BOTH OVERHEAD AND HANDSHOWER **OFF**

3.FITTING MIXER

a



b

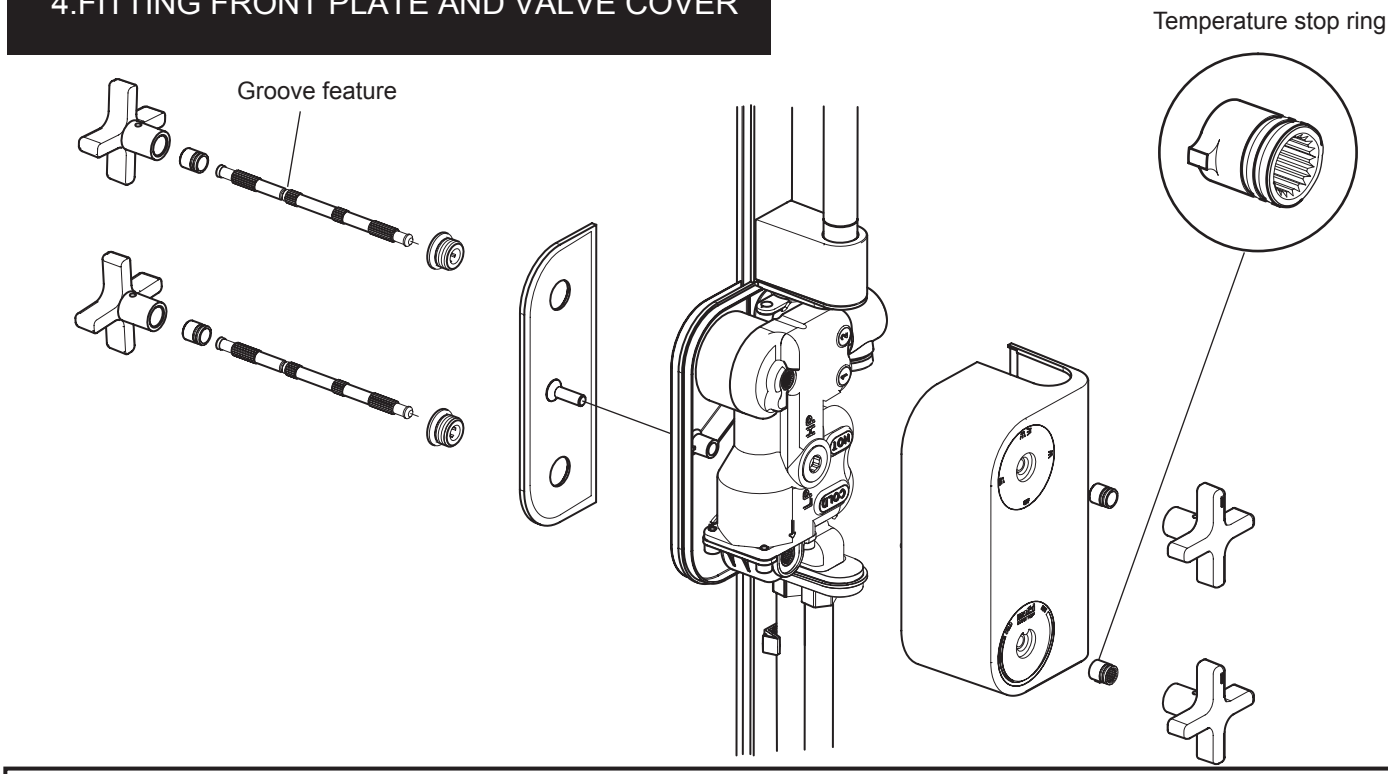


Before fitting the Shower Mixer turn off the hot and cold inlet supplies. Remove the Plumb check cover plate by unscrewing the 4 x M5 x 12 socket cap screws from the manifold with the allen key supplied (kit of parts), these screws are also used for fitting the shower mixer **(a)**. There will be some water still retained in the system from flushing the pipework which will briefly flow until drained. Dry the area before fitting the shower mixer. Remove the hot and cold Non return valves from the manifold, check for debris from flushing the pipework on the gauze filter on the bottom of the non return valves. Clean if required and refit the non return valves into the manifold **(a)**. **Important, fit the non return valves with the gauze filter facing down into the manifold.**
When removing the Plumb check cover the non return valves and outlet joints may be retained in the Plumb check cover, remove them and fit them into the Manifold before fitting the shower mixer. We advise that you keep the Plumb check cover it could be used again in a maintenance situation.

Push fit the Shower Mixer to the Manifold onto the Inlet and Outlet joints (b). Secure the Shower mixer with the 4 x M5 x12 socket cap screws used to fit the Plumb check cover. Turn on the water supplies. Fit the Spindles and handles **temporarily** to the inside of the shower mixer as shown (b) to test the operation of the mixer. **(Do not push spindles all the way through at this stage)**.

1. Test the operation of the flow control to the outlet(s).
2. Test the operation of the temperature control from hot to cold.
3. Check the Inlet and Outlet joints between the Manifold and Mixer for leakage. See Trouble Shooting, if required.

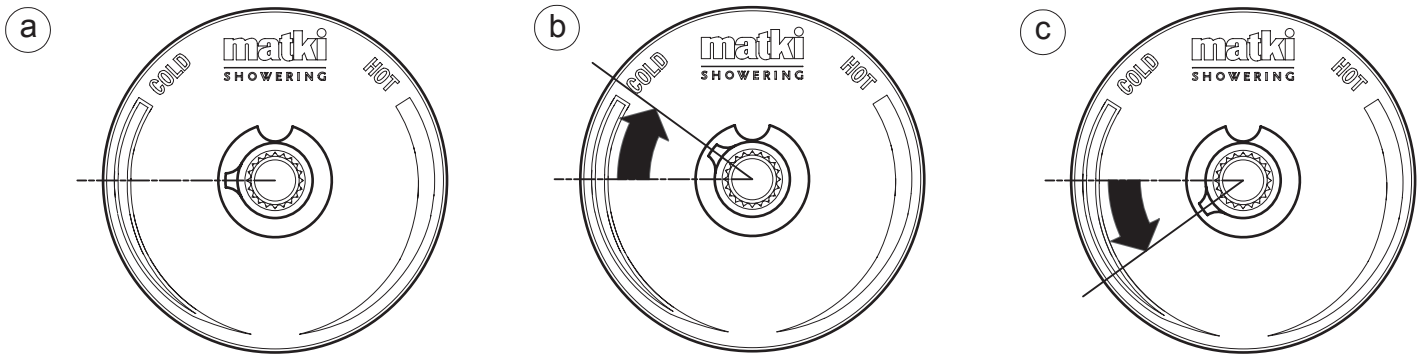
4.FITTING FRONT PLATE AND VALVE COVER



Remove the Spindle and Handles. Fit the Valve cover over the Valve body assembly, sliding the Valve cover sides around the 3 x Rubber gaskets at the top side and bottom of the Valve body assembly. Secure the Valve Cover in place using the M6 x 20 Csk Skt screw from the front face on the glass panel. Secure the Front plate to the black Valve Chassis using the 2 x Front plate fixing with the 8mm Allen Key provided.

IMPORTANT:- **Do not remove the spindles by pulling from the outside of the Shower mixer.** Fit the Valve spindles through the Valve body from the Front plate, the Spindle have a groove feature at one end, this engages into the Valve chassis to hold the spindles to the correct depth in the Valve body. Carefully push the Spindles into the Valve body ensuring that they are aligned with the spline in the Flow and Temperature control cartridges. Fit the handle spacers to both sides of the Flow control spindle. Fit one spacer to the outside of the Temperature control. Fit the Temperature stop ring (**only**) on the inside of the Temperature control spindle. (See setting temperature below) Align the handles opposite each other with the graphic line on the handles to the off position on the flow control and to full cold on the temperature control.

SETTING TEMPERATURE



Important : The maximum hot water temperature must be checked and reset if necessary, prior to the mixer being commissioned to avoid scalding. Check that the hot water system is operational and that the hot water supply has reached the optimum temperature.

The temperature control handle has a separate temperature stop ring which is fitted under the handle on the spindle. Firstly remove the temperature stop ring to set the maximum temperature. The recommended maximum hot water temperature from the mixer should not exceed **42 °C**. Temporarily fit the handle back on the temperature control spindle, rotate to the full cold position and remove the handle. As a guide refit the temperature stop ring onto the handle spindle in the position shown relative to full cold**.(a)** In optimum operating conditions this should be approximately 42 °C, however this position may vary due to fluctuating hot and cold supply inlet temperatures. Test the mixer for correct thermostatic operation check the maximum temperature with a thermometer and adjust the position of the temperature stop ring as required before securing the handle. **To increase the maximum hot temperature,** fit the stop ring on the spindle spline closer to cold. **(b) To decrease the maximum hot temperature**, fit the stop ring on the spindle spline closer to hot (**c**) When the correct maximum temperature is set, fit the handle with the graphic line on the handle face aligned to the full **cold** position. Turn the flow control to **off**. There is a handle spacer under this handle, fit this handle with the graphic line aligned to the **off** position.

5.TROUBLE SHOOTING

Visual check

1. **Fault:- Water leaking between Mixer and manifold.**
   Inlet or outlet joints not seated correctly in manifold o-rings not squeezed into inlet or outlet evenly.
   Damaged o-rings on inlet or outlet joints in manfold - Replace with spare o-rings supplied in the kit of parts.

2. **Fault:- Water leaking from centre of flow control on mixer.**
   Fault in Diverter Cartridge, replace Diverter Cartridge. (see 6.Maintenance)

3. **Fault:- Water leaking from temperature control on mixer.** See 6. Maintenance

4. **Fault:- Water leaking from mixer casting**. Replace mixer.

Shower Mixer Performance

5. **Fault:- No mixed water to the outlets when turning on the flow control.**
   Non return valves fitted upside down in the wall box manifold. See 3. Fitting Mixer.

6. **Fault:- Shower runs Hot when turned to cold, and Cold when turned to hot**
   Hot and cold inlet tubes plumbed incorrectly. Check Hot and Cold inlets pipes are fitted into correct inlets on Manifold.

7. **Fault:- Shower will not run hot when first installed.**
   Setting the Temperature. See 4.

8. **Fault:- Shower only runs cold or luke warm when first installed.**
   Thermostat may have debris trapped in COLD side of thermostat. See Maintenance.
   Fault with thermostatic element. Replace with new thermostatic element.

9. **Fault:- Shower only runs HOT.**
   Thermostat may have debris trapped in HOT side of thermostat. See Maintenance.
   Fault with thermostatic element. Replace with new thermostatic element.

10. **Fault:- Cold water cross tracking through valve into hot water system.**
    Non return valves / may need cleaning or replacement. See 6. Maintenance.

11. **Fault:- Shower lets by or constant drips**.
    Diverter cartridge may need replacing, diverter cartridge clamp nut has not been fully tightened .
    See Operation, Converting Diverter Cartridge or 6.Maintenance.

12. **Fault:- Very low flow or no flow, gravity fed installations.**
    No pressure due to very low pressure or blocked filters or pipework.

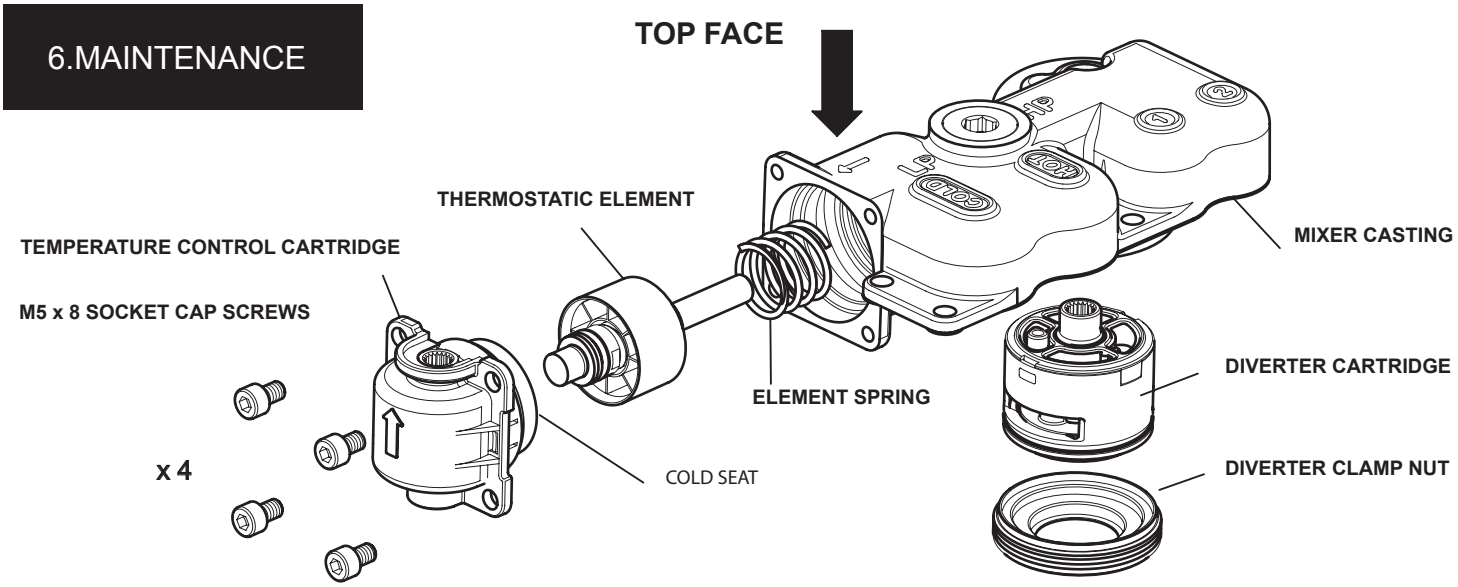
13. **Fault:- No or very little flow, pump fed installations**.
    Flow rate may be insufficient to activate booster pump flow switches.

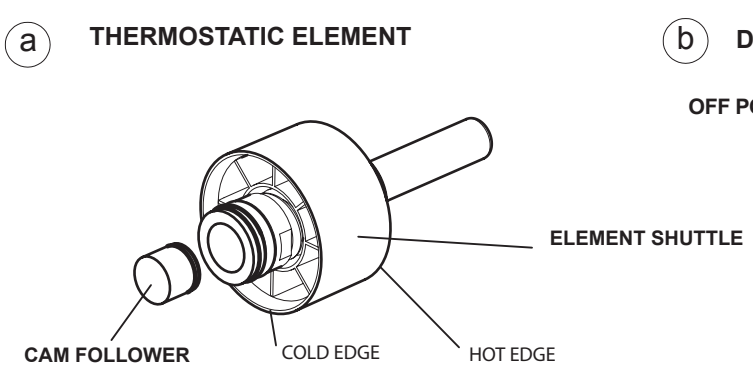
Operation

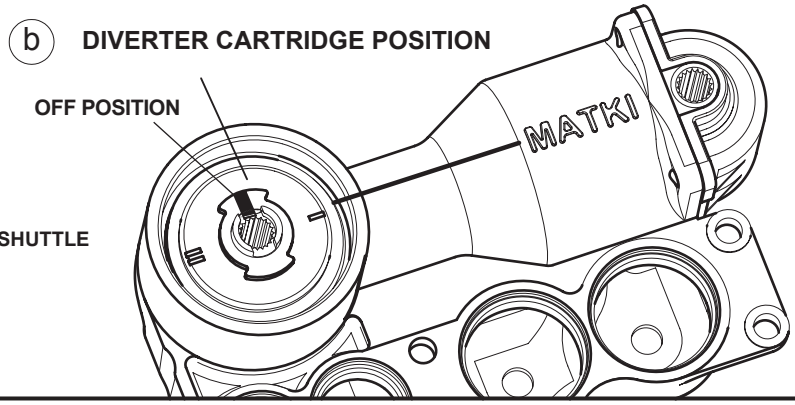
14. **Fault:- Controls misaligned or grinding when turned.**
    Remove Covers and Shower Mixer.The manifold may be slightly misaligned, loosen the 2 x Manifold fixings to the Black valve chassis, realign Manifold. Refit covers.

Please see Parts list, to identify parts and part numbers for replacement items.

6.MAINTENANCE







IMPORTANT. Before commencing maintenance on the mixer turn off the hot and cold inlet supplies. When maintenance is complete ensure that the mixer is checked and fully commissioned before use.

Remove the Mixer cover plate and unscrew the M5 x 12 socket cap screws to remove the mixer from the manifold.

NON RETURN VALVES. (See Fitting Mixer 3.)
Fault 1. Damaged o-rings on non return valve. Replace with part 1602 AF(supplied in the kit of parts SB 2/5245).
Fault 10. Remove and clean any debris and limescale from the gauze filter on the bottom of the part. Clean the non return valves by depressing the plunger and blowing through and refit, or replace with new non return valve part SB 2/5230

SHOWER MIXER PERFORMANCE (Please see Trouble Shooting for fault references).
Fault 8.
Remove the mixer as above and carefully remove the M5 x 8 socket cap screws from the black temperature control cartridge on the mixer body to access the thermostatic element.

The black temperature control cartridge has a rubber seat on the bottom face which is the cold seat.
Check for limescale or debris on this seat remove all traces of debris and de-scale as required using a propriety de-scaler. Check for limescale on the cold edge of the thermostatic element shuttle, descale as required.

Fault 9.
The hot seat is located inside the mixer casting check for traces of debris on this seat and on the hot edge of the Thermostatic element shuttle. **(a)** Flush out the mixer body to remove any debris and de-scale the shuttle as above.
Alternatively if faults 8 & 9 are not resolved replace with a new thermostatic element assembly SB 2/5211.
Important, on refitting the thermostatic element assembly remember to fit the element spring into the mixer first then the thermostatic element ensuring that the cam follower is positioned in the end of the thermostatic element.
Refit the temperature control cartridge with the arrow on the cartridge pointing upwards to the arrow on the mixer casting (eg. top face of casting).
Fault 11.
Unscrew the Diverter Clamp Nut on the bottom of the Mixer to access the Diverter Cartridge.(Insert a flat bladed screwdriver into one notch on the Diverter clamp nut and gently tap in an anticlockwise direction to loosen the nut). Remove the diverter cartridge and replace as required. **Important**, the diverter cartridge should be in the **off** position when re- fitted. The **off** position of the Diverter cartridge has been marked at the factory with a black marked line across the top of the green Diverter housing and on one edge of the white Central diverter spindle. Ensure these lines align when refitting.
The Diverter cartridge can only be fitted in one way please ensure that the guide peg on the bottom of the cartridge locates into the single hole in the mixer casting. As a guide the single recessed line on the top of the diverter housing is positioned on the right and aligned with the Matki logo on the mixer casting.(**b**) Replace the Diverter Clamp nut, tighten the nut in a clockwise direction, the nut **can not** be overtightened, the nut will be flush to the mixer casting when tight.

7.PARTS LIST

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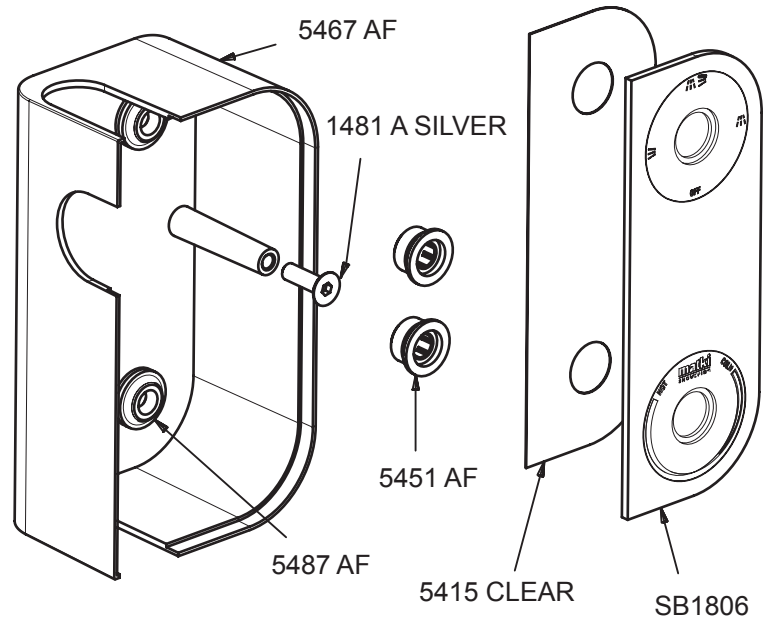
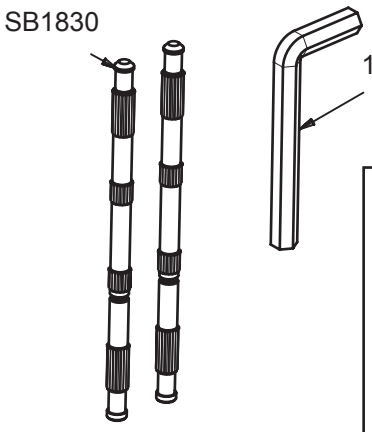
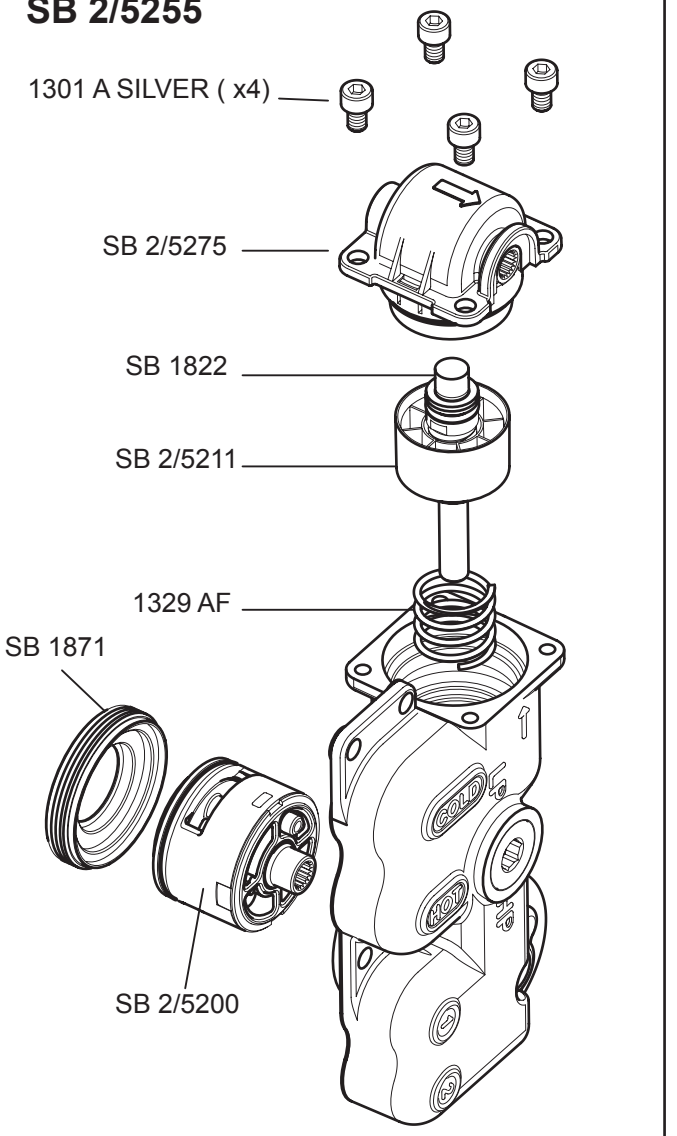
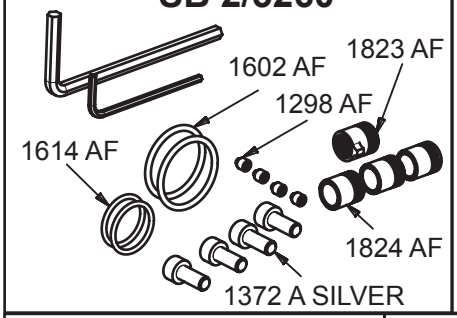


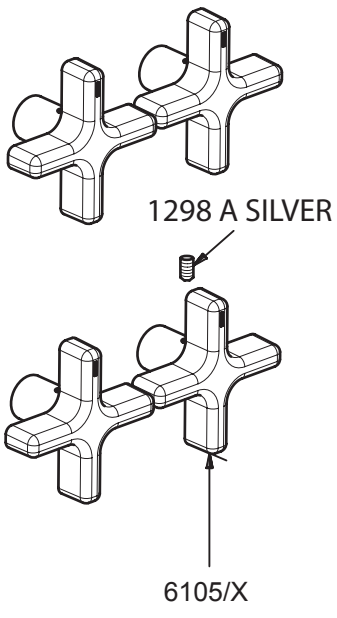


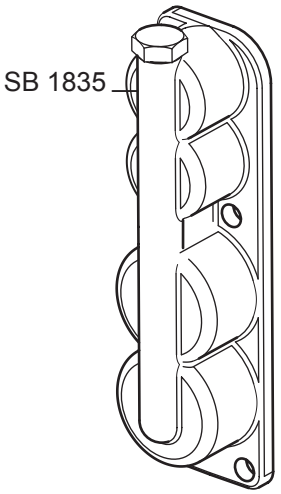
SB 2/5255



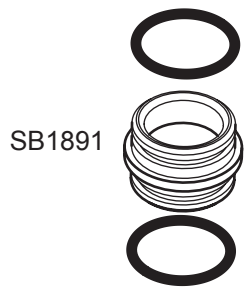
SB 2/5260



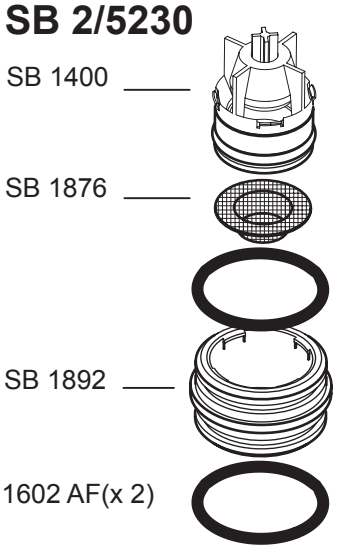




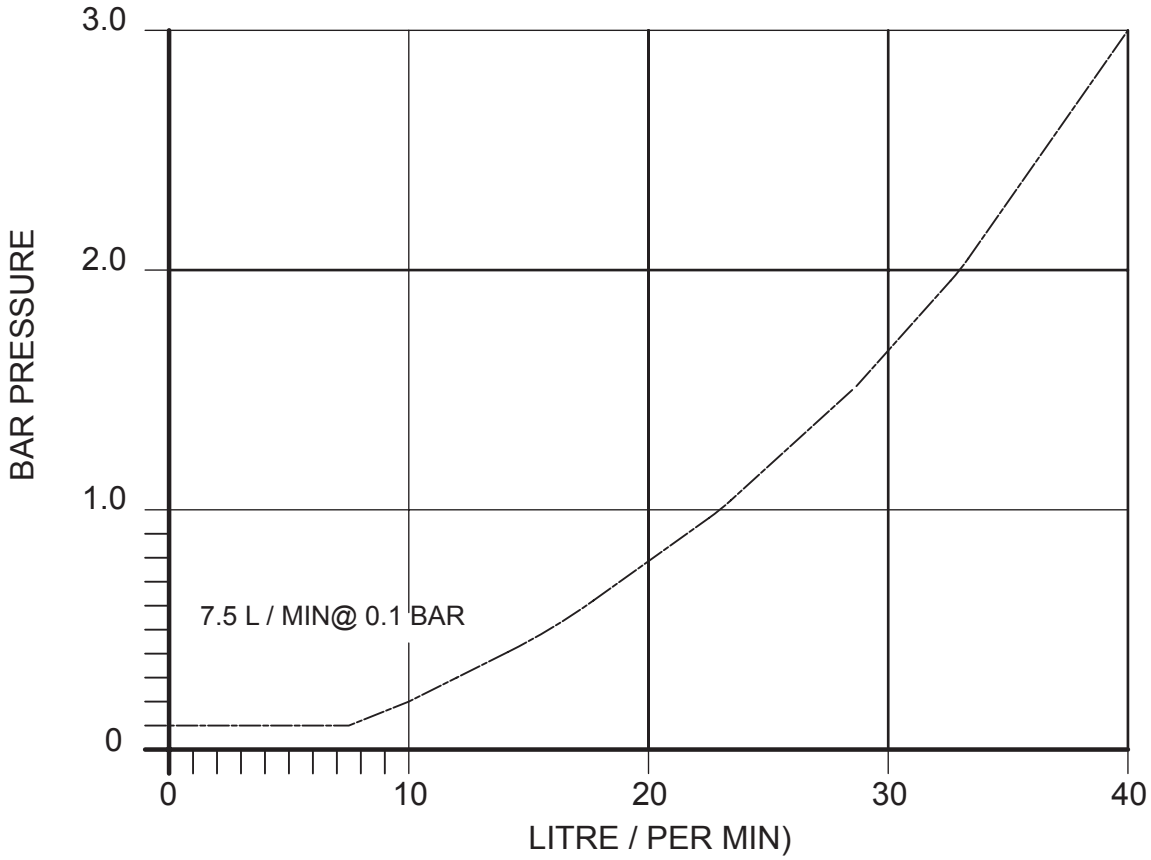
SB 2/5240



SB 2/5230



FLOW RATES THERMOSTATIC VALVE (FOR OPEN OUTLETS 1 & 2)



CARE AND GUARANTEE

Important care of your product
The controls and plate should be maintained by wiping with a soft, damp, clean cloth then polished using a dry duster.
NO abrasive powder, detergents or polishes should be used.
Cleaner containing alcohol, acid or corrosive chemicals should not be used.

Note, some household bleaches and denture cleaners can damage plated or coloured finishes and if splashed onto a fitting should be immediately washed off with cold water. If these instructions are followed we believe this fitting will give many years of satisfactory use.

We have a policy of continuous improvement and reserve the right to change specification without notice.

Guarantee - The Matki Elixir shower mixer is guaranteed for a period of 5 years against defects of materials and workmanship from date of purchase, subject to correct installation, maintenance and use in accordance with this instruction leaflet. Please retain proof of purchase. During the guarantee period parts will be replaced or repaired at our option.
No labour costs will be reimbursed unless prior agreement has been obtained from Matki Plc in writing.
This guarantee is offered as an extra benefit and does not affect your statutory rights as a consumer in any way whatsoever.

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