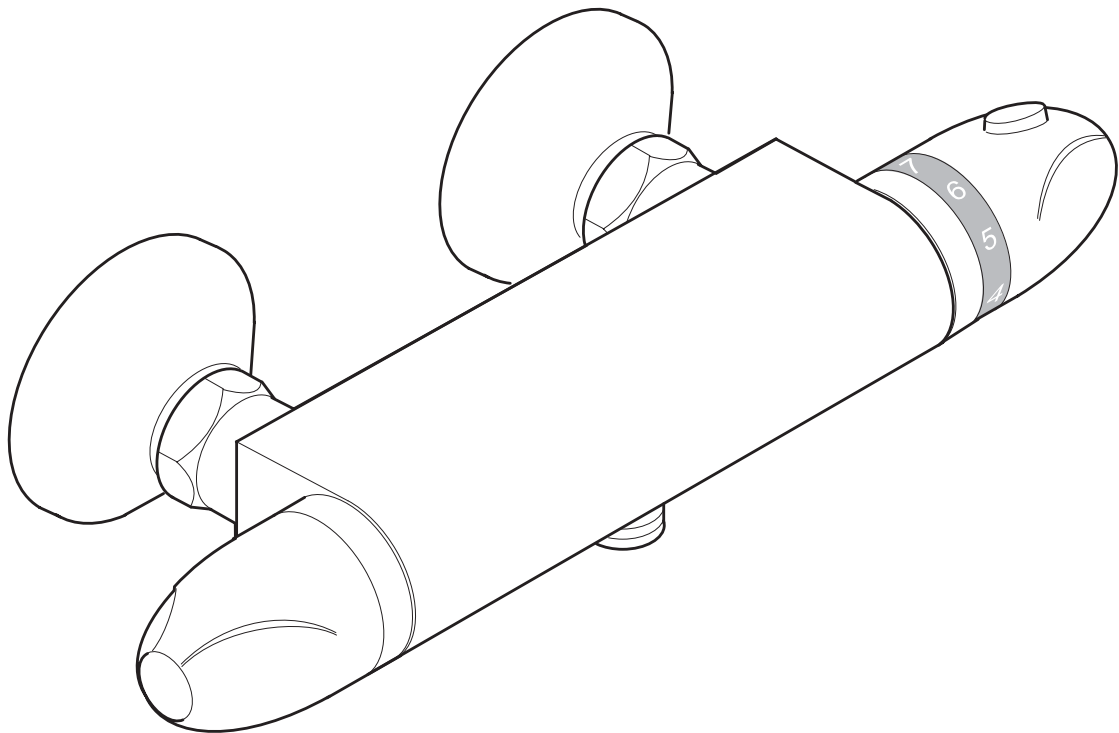


mira



Coda



MIRA CODA

**THERMOSTATIC SHOWER
VALVE**

Installation & User Guide

These instructions are to be left with the user

PATENT APPLICATION

GB 2 407 138A

SPECIFICATIONS

Notes

1. The installation, commissioning and maintenance must be carried out in accordance with instructions supplied by the manufacturer, and be installed by qualified or competent persons.
2. Installations must comply with the requirements of UK Water Regulations/Byelaws (Scotland), Building Regulations or any particular regulations and practices, specified by the local water supplier.
3. The Mira Coda is supplied and designed to operate with Mira L11 shower fittings.

Pressure Range

- Minimum maintained pressure: 0.2 bar (2.0 metre head) when used with Mira L11 shower fittings.
- Maximum maintained pressure: 5.0 bar.
- Maximum static pressure: 10 bar.

Note! Nominally equal inlet supply pressure are recommended for optimum performance.

Temperature Control

- Close temperature control is provided between **20°C and 50°C**.

Note! The temperature control specification, outlined below, is achieved with the blend between **35°C and 45°C**, with supply temperatures of **15°C** cold and **65°C** hot, **AND**, nominally equal inlet supply pressures.

- The blended temperature is maintained within **2°C with a 10°C** change in the hot or cold supply.
- The wax capsule sensor effects a shut down to seepage in approximately 5 seconds if the cold supply fails. Shut down to seepage is only achieved if the hot supply is **10°C** above the blend temperature.
- Minimum hot water supply temperature: **55°C**
- Maximum hot water supply temperature: **90°C** for short periods.
- BS 6700 recommends that the temperature of stored water should never exceed **65°C**. A stored water temperature of **60°C** is considered sufficient to meet all normal requirements and will minimise the deposition of scale in hard water areas.

INSTALLATION

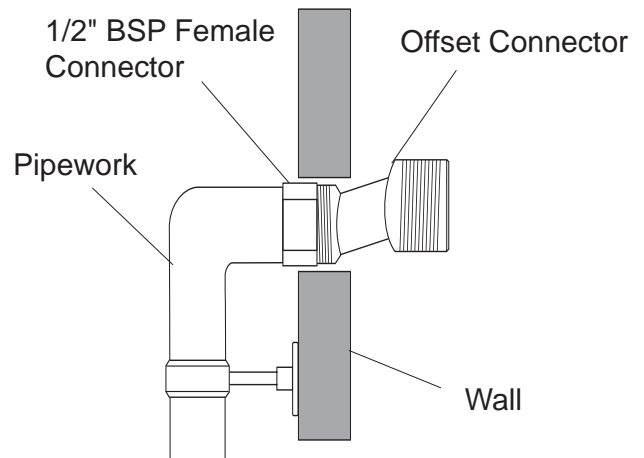
General

1. The installation, commissioning and maintenance must be carried out according to instructions supplied, and must be conducted by qualified or competent person.
2. Before starting installation, ensure that all site requirements correspond to information given in the **SPECIFICATION** section.
3. **DO NOT** install product in a position where it could become frozen.
4. Install in a position with easy access for maintenance.
5. Accessible isolating valves **MUST** be provided for maintenance.
6. The supply pipework **MUST** be thoroughly flushed to remove any debris before connection.
7. The hot water supply must be connected to left inlet (next to the flow selector). This shower does not allow for reversed inlets.
8. Installations must comply with the requirements of UK Water Regulations/Byelaws (Scotland), Building Regulations or any particular regulations and practices, specified by the local water supplier.
9. No form of outlet flow control should be fitted. Only use L11 shower fittings recommended by the manufacturer/supplier.
10. **Do not** install the shower control in a position that restricts service access. A minimum distance of 150mm is required between the hot and any side wall.
11. **Do not** use excessive force when making connection.
12. The supplied wall mounting bracket must be used for stud partition or laminated panel walls to ensure the valve is fully supported.

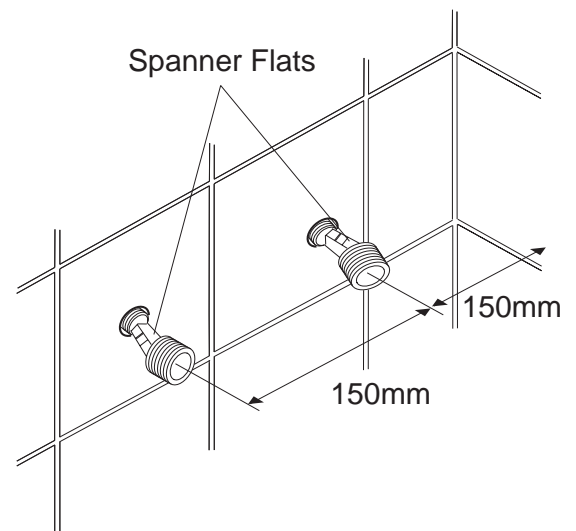
Solid Wall Installation

For installation onto a stud partition or laminated panel wall, or onto unfixed rear-entry pipework, refer to the next section: **Stud Partition, Laminated Panel, or Unfixed Rear-entry Pipework Installation.**

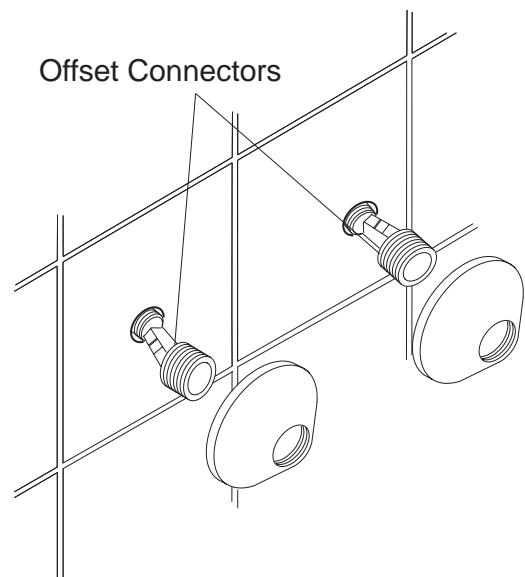
1. Make sure that the pipework is set at the correct distance apart and solidly fixed as this supports the valve. Apply suitable thread sealant (not supplied) and attach the offset connectors to the pipework in the wall.



2. Tighten the offset connectors using a spanner on the flats. Make sure that the connectors are level and set at the correct distance apart when tightened.

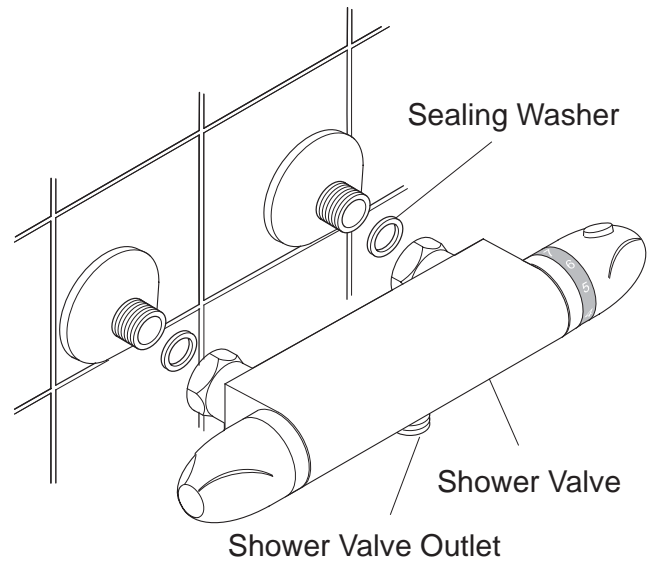


3. Screw the concealing plates onto the offset connectors until they come into contact with the wall. Seal with an appropriate sealant.



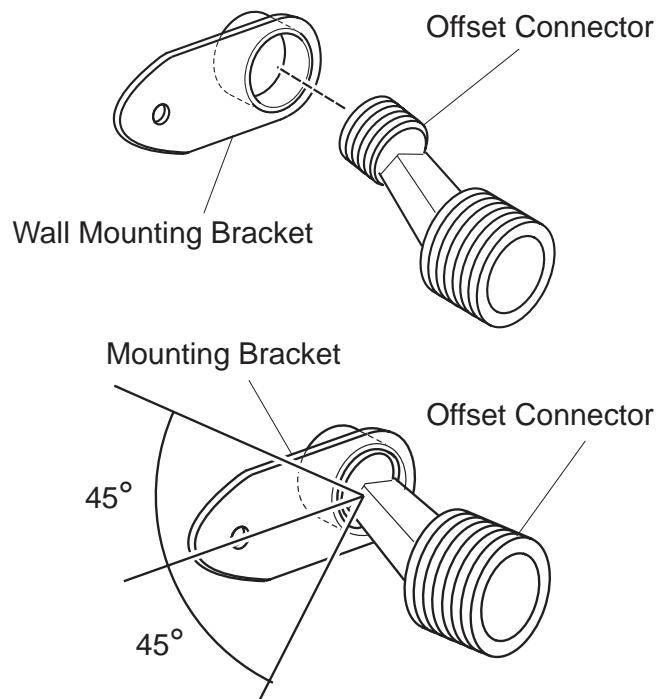
Caution! Ensure supply pipework is flushed before installing the shower valve.

4. Assemble the shower valve with a sealing washer in each inlet and attach to the offset connectors.
5. Tighten the nuts using a suitable spanner.
6. Connect the shower fittings to the shower valve outlet.
7. Turn on the water supplies and check for leaks at all pipe connections.

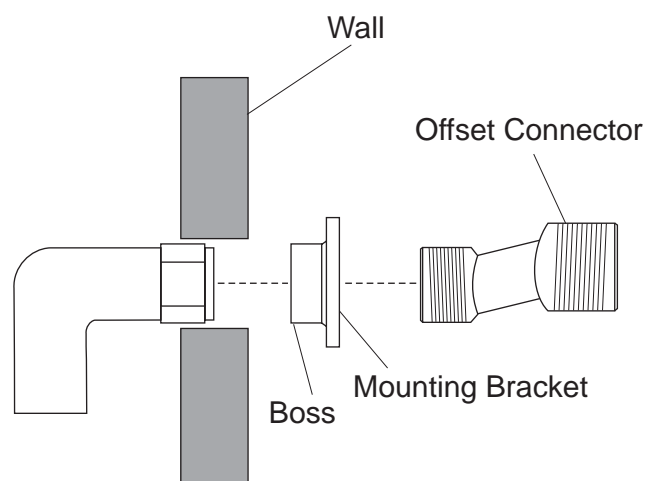


Stud Partition, Laminated Panel, or Unfixed Rear-entry Pipework Installation

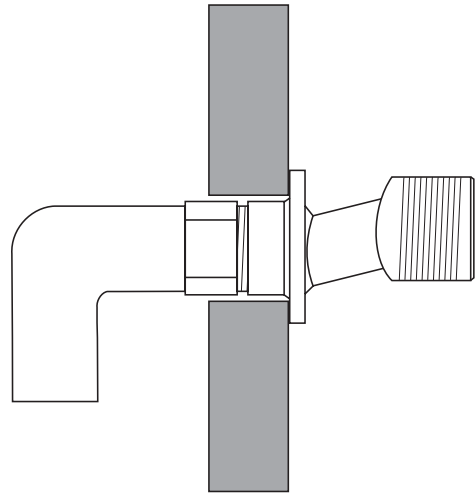
1. Screw the mounting bracket onto the offset connectors.
2. The mounting bracket must extend in the same direction as the offset of the offset connector. The angle between the offset connector and the mounting bracket must be less than 45°. Otherwise, the mounting bracket will not fit under the concealing plate.



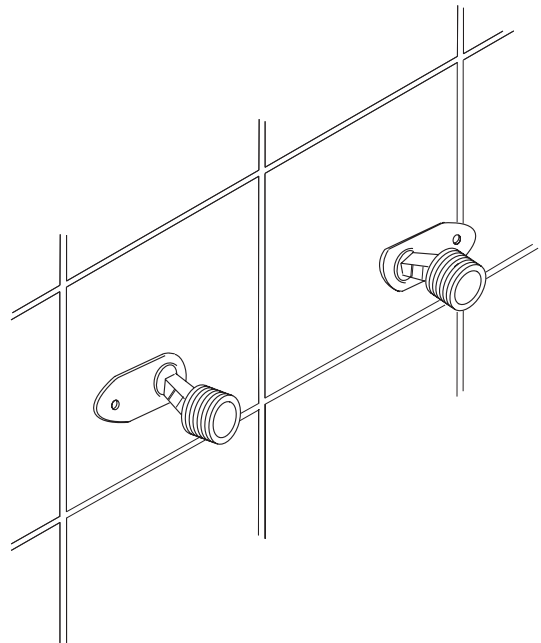
3. The mounting bracket boss should protrude to the rear, facing the wall.



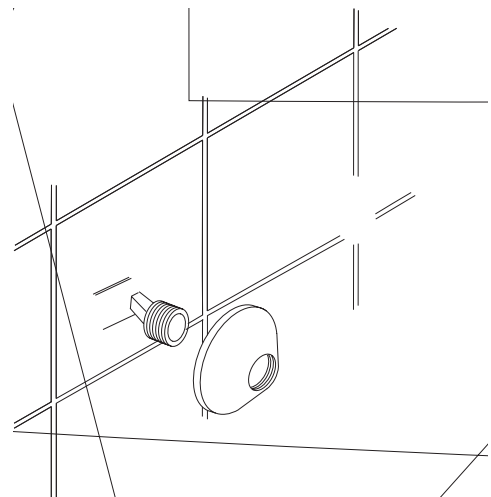
4. Apply suitable thread sealant (not supplied) and attach the offset connectors to the pipework in the wall. Make sure that the connectors are level and set at the correct distance apart.



5. Tighten the connection to the pipework while holding the offset connectors in place using a spanner on the spanner flats.
6. Fix the mounting bracket to the wall through the small hole, using the appropriate wall fixings for the type of wall (not included).

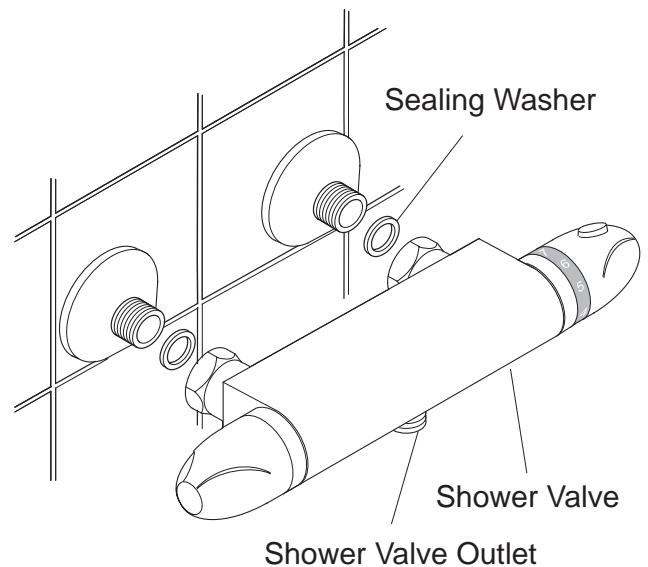


7. Screw the concealing plates onto the offset connectors until they come into contact with the wall. Seal with an appropriate sealant.



Caution! Ensure supply pipework is flushed before installing the shower valve.

8. Assemble the shower valve with a sealing washer in each inlet and **attach to the offset connectors.**
9. Tighten the nuts using a suitable spanner.
10. Connect the shower fittings to the **shower valve outlet.**
11. Turn on the water supplies and check for leaks at all pipe connections.



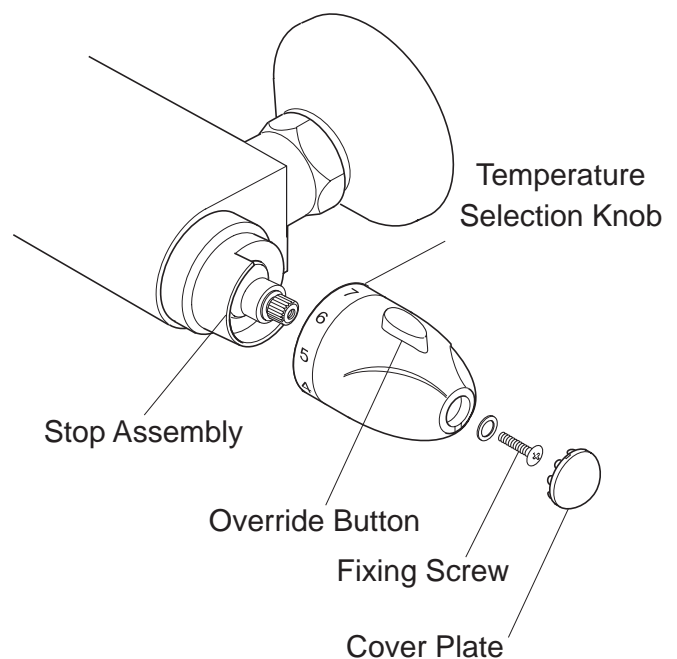
COMMISSIONING

Setting the Maximum Temperature

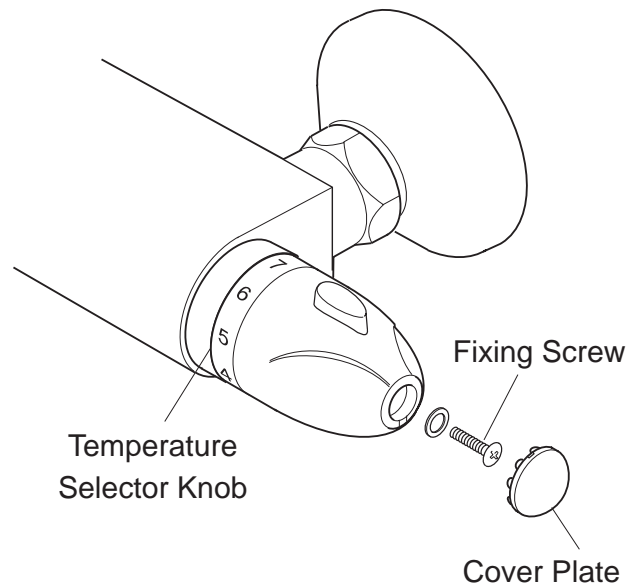
The Mira Coda Thermostatic Mixer has been preset to approximately 41°C under ideal conditions at the factory, which is appropriate for most systems. However, site conditions and personal preference may make it necessary to reset this temperature.

Caution! Before testing the mixer, ensure that the hot and cold water are flowing correctly by exercising the temperature selector knob between the cold and hot stops.

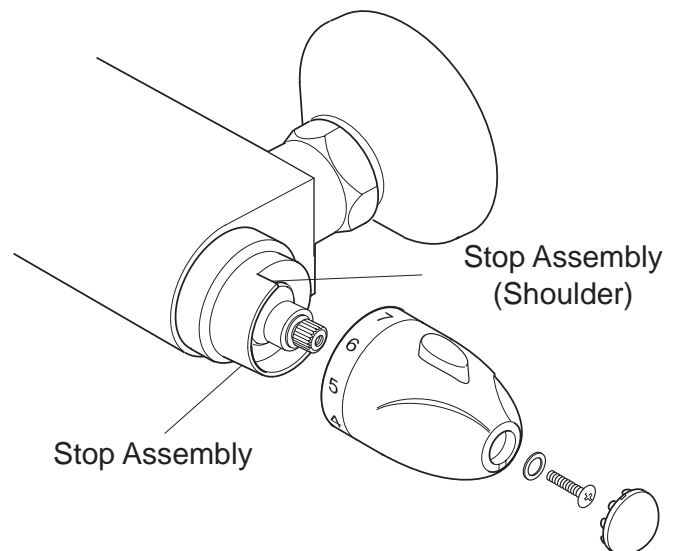
1. Turn the temperature selector knob to position 7 and test that the temperature of the water from the shower outlet is between 39°C and 41°C (as measured with a bath thermometer). If the water is not in this range of temperatures, proceed with the following procedure.
2. Turn the temperature selector knob to the fully cold position.
3. Hold down the temperature override button and slowly turn the knob until the output water reaches a temperature of 41°C.
4. Wait for the water temperature to stabilise.



5. Insert a small screwdriver into the notch and pry off the cover plate.
6. Unscrew the fixing screw.
7. Remove the temperature selector knob without disturbing the stop assembly.



8. Replace the temperature selector knob so that the 7 mark is level with the shoulder on the stop assembly .



9. Replace the fixing screw and the cover plate.

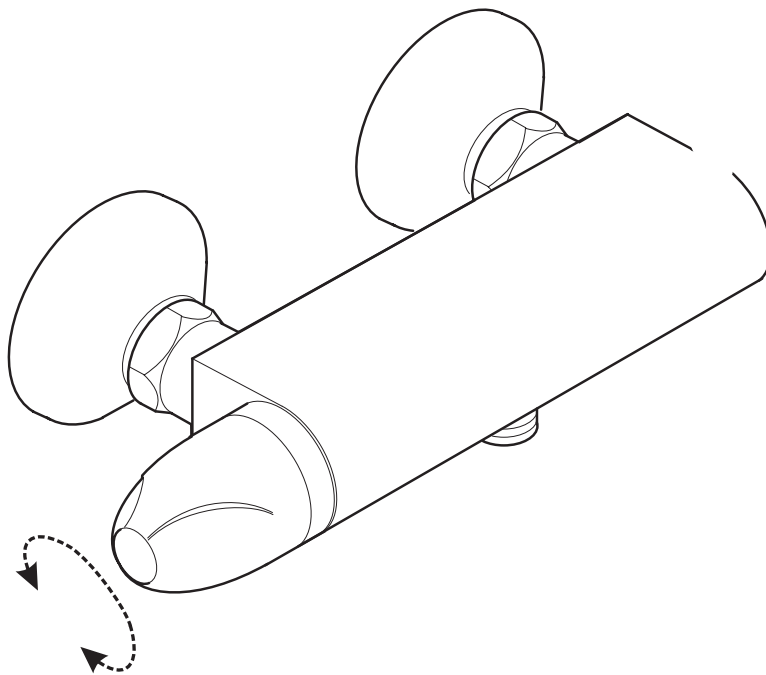
Adjusting the Temperature

The temperature is controlled by rotating the temperature selector knob.

For safety reasons, the temperature is limited by a stop. To obtain higher temperature, press the override button on the temperature selector knob and continue to rotate the knob.

Adjusting the Flow

The flow is controlled by rotating the flow selector knob.



FAULT DIAGNOSIS

Read the section: **Important Safety Information** first.

Provided that the Mira Coda has been correctly installed and is operated in accordance with the instructions contained in this guide, difficulties should not arise. If any maintenance is required then it must be carried out by a competent tradesperson for whom the fault diagnosis chart and maintenance instructions are provided. Before replacing any parts make sure that the underlying cause of the malfunction has been identified.

Symptom	Cause / Rectification
1. Only hot or cold water from mixer outlet.	a. Inlet supplies reversed.
2. Fluctuating or reduced flow.	a. Check that the Inlet Filters are not blocked. b. Make sure that the minimum flow rate is sufficient for the supply conditions. c. Make sure that the maintained inlet pressures are nominally balanced and sufficient. d. Make sure that the inlet temperature differentials are sufficient. e. Airlock or partial blockage in pipework.
3. No flow from mixer outlet.	a. Make sure that the Inlet Isolating Valves are open. b. Hot or cold supply failure. Make sure that the hot and cold supplies are available to the BSM. c. Refer to symptom 2 .
4. Blend temperature drift.	a. Inlet supplies reversed. b. Hot supply temperature fluctuation. c. Supply pressures fluctuating. d. Thermal Cartridge defective. e. Inlet Filters Blocked.
5. Maximum blend temperature setting too hot or too cold.	a. Indicates incorrect maximum temperature setting, refer section: ' Commissioning '. b. Refer to symptom 4 .

Symptom	Cause / Rectification
6. Drip from handset.	<p>A small amount of water may be retained in the fitting after the shower control has been turned off. This may drain over a few minutes. This is quite normal. Changing the angle of the shower fitting may vary the draining time.</p> <p>Defective ceramic plates within the shower cartridge. Renew the cartridge assembly.</p>

MAINTENANCE

General

This Product is precision engineered and should give continued safe and controlled performance, provided:

1. It is installed, commissioned, operated and maintained in accordance with manufacturers recommendations.
2. Periodic attention is given, when necessary, to maintain the product in good functional order.

Lubricants

Standard silicone-only based lubricants may be used to assist refitting.

Warning! Use silicone-only based lubricants. Do not use oil-based or other lubricant types as rapid deterioration of seals may occur.

Cleaning

The Mira Coda should be cleaned using a mild washing up detergent or soap solution, rinsed and then wiped dry with a soft cloth.

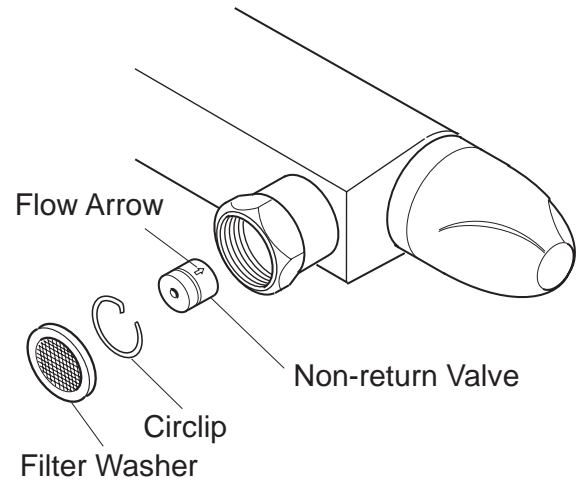
Warning! Many household cleaners contain abrasive and chemical substances, and should not be used for cleaning plated or plastic fittings.

Maintaining the Non-Return Valves

The non-return valves are located in the valve body, and are accessible through the inlet connectors.

Caution! Ensure that the non-return valves are installed correctly to prevent crossflow or malfunction of the valve.

1. With the water supplies turned off and the thermostatic mixer removed, remove the washer, the circlip and the filter.
2. Remove the non-return valve and clean any debris.
3. On reassembly ensure that the non-return valve is fitted the correct way round (with the arrow indicating the flow pointing towards the mixer).



Filter

The inlet filters are located in the inlet connector. Clean or renew as necessary.

Thermostatic Cartridge

In hard water areas the filters in the thermostatic cartridge may become blocked with limescale, which will reduce the flow of water. It is recommended that the cartridges are checked regularly and cleaned in a descaling solution (such as kettle descalent) if necessary. Be sure to follow the manufacturer's instructions on the descalent package.

Note! The cartridge is non-servicable and will require replacement should failure occur.

