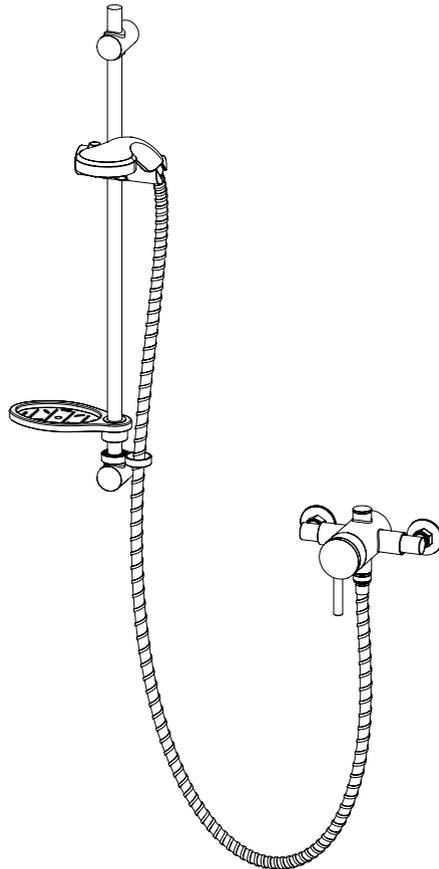


AQUALISA

SIERRA™

EXPOSED SEQUENTIAL VALVE
WITH ADJUSTABLE KIT

INSTALLATION AND USER GUIDE



CONTENTS

General Information	2
Tools Required (Tools not supplied)	3
Warranty	3
Before You Start	3
Flow Regulators	5
Installation	5
Fitting the Shower Kit	8
Cartridge Temperature Adjustment	10
Cleaning the Thermostatic Cartridge	11
User Instructions	12
General Cleaning	13
Trouble Shooting	14

GENERAL INFORMATION

This product complies with EN1111.

This product must be fitted in compliance with the UK Water Supply (Fittings) Regulations. If in doubt please contact your local water authority.

TOOLS REQUIRED (TOOLS NOT SUPPLIED)



We have taken great care to ensure that this product reaches you in perfect condition. However should any parts be damaged or missing please contact your point of purchase. This does not affect your statutory rights. In addition if you require replacement parts please contact the Aqualisa customer helpline on 01959 560010 for assistance.

WARRANTY

Aqualisa products are supplied complete with a 1 year guarantee that can be upgraded by registering this product with Aqualisa.

For details see: www.aqualisa.co.uk/warranty

BEFORE YOU START

This shower should be installed by a competent person in compliance with current Water Supply Regulations. For further details contact your Local Water Authority.

- a. Identify all components and check pack contents.
- b. Turn off water supplies.
- c. Suitable full bore isolation valves must be fitted to both supplies in accordance with current Water Supply Regulations and our terms of warranty. Valves must be accessible for warranty and servicing.



Before making any pipe connections all supplies **MUST** be thoroughly flushed to remove any debris.

WATER SUPPLY REQUIREMENTS

Hot Water Maximum: 65°C
Recommended 60-65°C

Cold Water Minimum: 5°C
Recommended 10-15°C

Always maintain a 10°C difference between hot system temperature and maximum hot setting of valve.

Operating Pressure Range: Min. 0.1 bar, Max. 5.0 bar

When water pressure is higher than 5 bar a pressure reducing valve (not supplied) must be fitted before the mixer. A setting of 3 bar is recommended.

This valve is suitable for gravity stored, gravity boosted (pumped), balanced high pressure and combination boiler systems.

For gravity and gravity pumped systems use 22mm supply pipes and reduce to 15mm for connection to the shower valve.

Pump Installation: PUMPS MUST NOT BE FITTED DIRECTLY TO A WATER MAIN. REFER TO PUMP MANUFACTURERS INSTALLATION GUIDELINES. Ensure there is adequate flow through the pump to activate the flow switches.

Combination boiler: MUST have a minimum rating of 24kW (80,000 Btu) and be of the type fitted with a fully modulating gas valve.

N.B. Boiler performance may affect outlet temperature.

Operating pressures: Hot and cold supplies should be kept as even as possible in order to ensure the maximum efficiency of the mixer.

FLOW REGULATORS

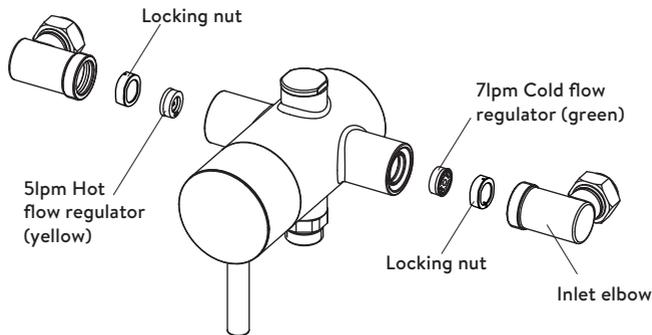
This product is supplied with factory fitted flow regulators to maximise the temperature stability.

Flow regulators are factory fitted to the inlet connections of the valve body; these can be removed by unscrewing the inlet elbows from the valve body.

Recommendations:

Mains fed/high pressure systems (e.g. combination boiler, unvented (balanced) systems and gravity boosted (pumped) - **leave fitted**.

Gravity stored systems - **recommend removing**.



INSTALLATION

This product is suitable for concealed, falling and rising inlet supply pipes.

1

Ensuring adequate provision to allow the water to discharge safely to waste, turn on the supplies to flush the system through. Attach pressure test equipment and pressure test the system in accordance with Water Supply Regulations.

N.B. Turn off the water supply following system flushing.

2

Construct suitable 15mm inlet supplies at level 150mm centres. Ensure the pipework protrudes a minimum of 100mm, measured from the intended finished wall surface.

Inlet water supplies

As viewed from front on:

Left = HOT

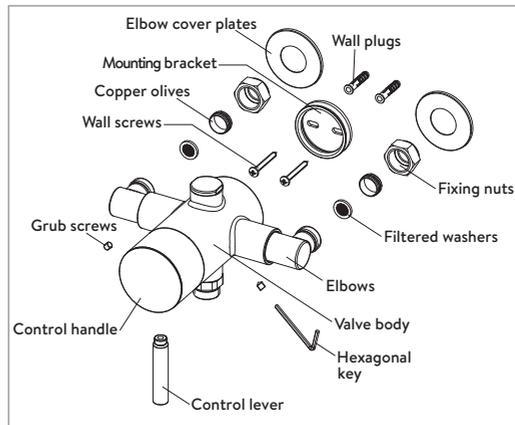
Right = COLD

Pipe centres: 150 ± 1 mm

Adjustable: 145 - 155mm

Pipe tails: 18mm

From finished surface



N.B. The inlet elbows are supplied at factory set 150mm centres. If required, the inlet centres can be adjusted by winding the elbows into the body to reduce the inlet centres, or out to increase the inlet centres.

3

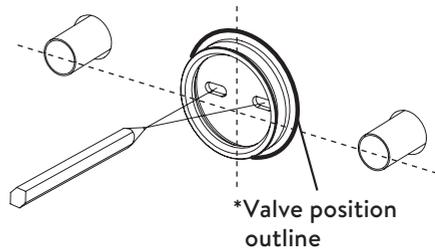
Once the wall surface has been finished, flush through the pipe work prior to trimming the length of the pipes to 18mm, measured from the finished wall surface.

N.B. We recommend using a rotary type cutter but if a hacksaw is used, ensure the cut is straight and the pipe ends must be carefully deburred and chamfered.

N.B. If plastic pipe is used, tube inserts must be fitted and must not increase the diameter or extend the cut off length by more than 2mm.

4

Place valve body against the wall with elbows over the pipe tails and mark around the base where it sits on the wall. Remove valve body, place mounting bracket in centre of the **outlined valve position*** and mark points for fixing holes.



5

Important - Use appropriate fixings suitable for wall type/ construction. Drill holes to suit required fixings (Use wall plugs supplied if suitable).

6

Secure mounting bracket to the wall using the wall screws supplied (if suitable).

7

Fit the elbow cover plates, fixing nuts and copper olives over the pipe tails and insert the filtered washers into the elbows of the valve.

8

Making sure the outlet is at the bottom and that the elbows align with the pipe tails, push the valve body onto the mounting bracket, and secure with the two grub screws using the 2.5mm hexagonal key (supplied).

Securely tighten the nuts of the elbows using a suitable spanner.

9

Fit the lever to the control handle.

10

Turn on water supplies and check for leaks.

Fitting the Shower Kit - Rail Assembly

ADJUSTABLE SHOWER KIT	NO.	DESCRIPTION	QTY
	1	Wall Plug	2
	2	Upper Rail Bracket	1
	3	Short Wall Screw	1
	4	End Cap	2
	5	Handset Holder	1
	6	Handset	1
	7	Riser Rail	1
	8	Soap Dish	1
	9	Shower Hose - 1.5m	1
	10	Hose Restraint	1
	11	Lower Rail Bracket	1
	12	Long Wall Screw	1

1

The top bracket is a floating bracket and can be positioned to suit existing screw holes (if required).

Prepare two fixing points, using the fixings provided (if suitable).

N.B. The maximum distance between fixing points is 620mm.

2

Fit the hose restraint to the rail followed by the soap dish and handset holder. The handset holder button must be depressed whilst fitting. The button must be to the left of the rail, and the holder to the right.

3

Secure the upper rail bracket into position on the finished wall surface using the short wall screw.

4

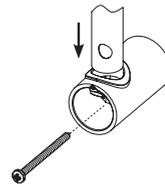
Attach the lower rail bracket onto the bottom of the rail.

5

Slide the rail assembly up through the upper rail bracket.

6

Align the small hole in the rail with the lower rail bracket. Secure the lower rail bracket to the wall, using the long wall screw.



7

Place the end caps into the upper and lower rail brackets and push firmly into position.

8

Ensuring the hose washer is in the correct position; attach the non-conical end of the hose to the valve body. Run the shower for a few seconds to clear any debris that may be present.

9

Pass the conical end of the shower hose through the hose restraint.

10

Ensuring the hose washer is in the correct position; attach the conical end of the hose to the shower head, then place the hose in the handset holder.

CARTRIDGE TEMPERATURE ADJUSTMENT

This product has been factory set under balanced pressures, and a hot water supply of 65°C.

N.B. This product can reach temperatures in excess of 50°C.

If site conditions vary significantly from the factory conditions, it may be necessary to adjust the maximum temperature setting of the shower.

In this case, you can adjust the cartridge to change the outlet water temperature to suit your requirements. This can be adjusted whilst using a digital thermometer and following the below instructions.

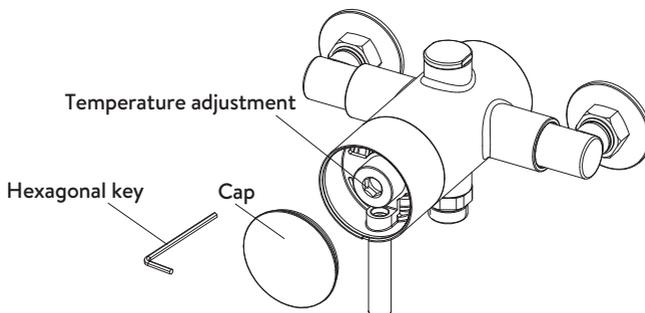
1. Carefully remove the control handle cover cap by inserting a small flat bladed screwdriver into the slot (located at the 6 o'clock position) and levering out.
2. Turn the temperature handle to the maximum hot position (flow will commence).
3. Whilst measuring the temperature of the water, insert a 2.5mm hexagonal key (supplied) into the centre of the cartridge.
4. To change the maximum temperature setting, turn the hexagonal key slowly allowing sufficient time for the temperature to stabilise.

Increase the temperature by turning anticlockwise.

Decrease the temperature by turning clockwise.

N.B. We recommend a maximum temperature setting of 48°C.

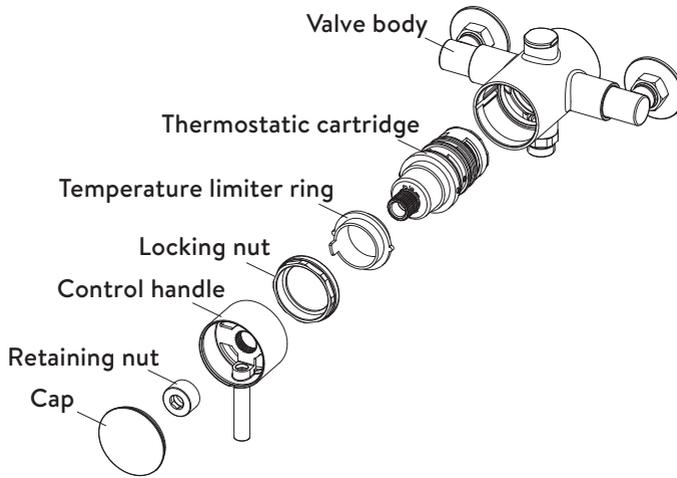
5. Once the desired temperature is achieved, turn the shower off.
6. Refit the cover cap by pressing into position.



CLEANING THE THERMOSTATIC CARTRIDGE

See image page 12.

1. Before carrying out any maintenance, ensure the water supplies are isolated. Once isolated, turn the shower on to release internal pressure. If unsure contact a qualified tradesman.
2. Carefully remove the control handle cover cap by inserting a small flat bladed screwdriver into the slot (located at the 6 o'clock position) and levering out.
3. Using a 10mm hexagonal key, undo the brass retaining nut and remove the control handle.
4. Remove the large brass locking nut using a suitable spanner.
5. Pull forward and remove the brass temperature limiter ring.
6. Prior to removing the cartridge, take note of its orientation as it must be refitted the same way. We suggest making a mark at the 12 o'clock position on the cartridge assembly.
7. For ease of removal, temporarily refit the control handle and pull the cartridge free from the valve body . Rinse the cartridge under cold water to remove any debris or limescale build up.
8. If necessary, replace the cartridge. A replacement cartridge can be obtained by contacting customer service on 01959 560010.
9. Refit the cartridge into the valve body by lining up the two keyways (located at 3 and 9 o'clock) and ensuring the positioning mark (made in point 6) is at the 12 o'clock position.
10. Insert the temperature limiter ring by lining up the two keyways, and ensuring the raised tab is at the 8 o'clock position.
11. Refit and tighten the large locking nut and place the control handle back into position (lever at the 6 o'clock position), followed by the brass retaining nut.
12. Fit the cover cap by pressing into position.
13. Reinststate the water supply and ensure there are no leaks.



USER INSTRUCTIONS

Shower valve

The valve and fixings **MUST NOT** be used as a grab rail or means of support.

To turn the shower on rotate the lever anticlockwise until the desired temperature is achieved.

For cooler temperature - rotate clockwise.

For warmer temperature - rotate anticlockwise

N.B. With all Sierra™ shower valves fitted to combination boiler systems, it may be necessary to adjust the control lever and reduce the flow to achieve a comfortable showering temperature.

Shower head and rail system

NEVER ATTEMPT TO MAKE ANY ADJUSTMENT TO THE SHOWER HEAD BY PULLING ON THE SHOWER HOSE.

1. To select the preferred height for the shower head, depress the handset holder button to enable the slider to be moved up or down the rail.
2. Angular adjustment is made by carefully but firmly pulling forwards or pushing back the shower head towards the wall.

N.B. The tension of the handset holder can be adjusted with a screwdriver.

Inlet filters

The product is protected by inlet filter washers located in the inlet elbow connections.

GENERAL CLEANING

Whilst modern plating techniques are used in the manufacture of these fittings, the plating will wear if not cleaned properly. The safest way to clean your product is to wipe with a soft damp cloth. Stains can be removed using washing up liquid.

DO NOT USE ABRASIVE CLEANERS.

Limescale

Rub the nozzles of the shower head to break down scale build up. Should chemical descaling of the head become necessary, remove the shower head fully and immerse in a mild proprietary descaler.

IT IS IMPERATIVE THAT DESCALING IS CARRIED OUT STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. SUBSTANCES THAT ARE NOT SUITABLE FOR PLASTICS AND ELECTROPLATED SURFACES MUST NOT BE USED.

TROUBLE SHOOTING

Symptom	Possible Cause	Remedy
Water leaking from shower head.	This is normal for a short time after turning off.	Adjust angle of shower head in holder as necessary to vary draining time. Clean shower head.
	Shower flow valve failing to close fully, possibly due to water borne debris.	Remove cartridge and check. See page 11 before dismantling shower valve.
Maximum water temperature too hot or cold.	Maximum water temperature set incorrectly.	Reset maximum water temperature. See page 10.
Only hot or cold water from the shower valve outlet.	Partially closed stop or service valve in water supply pipework to the shower valve.	Open stop or service valve.
	Inlet filter is partially blocked.	Clean or replace, flush through pipework before refitting.
	Inlet water supplies are reversed (hot to cold supply).	Check the connections are the correct way round. Hot on the left and cold on the right when viewed from the front. Rework pipework as necessary.
Handset holder tight/loose.	Requires adjustment.	Use cross head screwdriver in handset holder to adjust.
Control dial stiff to operate.	Debris/Scale build up.	See page 11.
No flow or low flow rate and/or varying temperatures.	Check shower head, hose and filters for any blockages.	Clean as necessary. See page 13.
	Partially closed stop or service valve in water supply pipework to the shower valve.	Open stop or service valve.
	Instantaneous water heater cycles on and off as the flow rate or pressure is too low.	Increase water flow rate or pressure through system. Contact the boiler manufacturer.
	Head of water is below the minimum distance required or insufficient to activate pump (gravity supply only).	Raise the cistern or fit a universal booster pump. Refer to pump manufacturers guidelines.
	Inlet filter is partially blocked.	Clean or replace, flush through pipework before refitting.
	Hot or cold water being drawn off elsewhere causing pressure changes or instantaneous boiler temperature changes.	Do not use other water outlets when using the shower.
	Make sure the maintained inlet pressures are nominally balanced and sufficient.	See Water Supply Requirements page 4.
	Airlock or partial blockage of the pipework (gravity supply only).	Flush through pipework to ensure removal of debris and any airlocks.
	No hot or cold water reaching the shower valve.	Check hot and cold feeds (the valve will shut down if either the hot or cold supply fails).

Symptom	Possible Cause	Remedy
Outlet water temperature too hot/cold.	Inlet filter is partially blocked.	Check inlet filters for any blockages and clean as necessary.
	Installation conditions outside operating parameters.	See Water Supply Requirements page 4. Refer to Cleaning the Thermostatic Cartridge section see page 11. Refer to Cartridge Temperature Adjustment see page 10.
	Hot water temperature is less than 10°C above the required blend temperature.	Adjust hot water temperature or wait for water to reheat if stored system is used.
	Instantaneous water heater not igniting because water flow rate is too low.	Increase water flow rate through the system. Check inlet filters and cartridge - clean or replace. See page 11. Contact the boiler manufacturer.

AQUALISA

Aqualisa Products Limited
The Flyers Way
Westerham Kent TN16 1DE

Customer Helpline: 01959 560010 | Brochure Hotline: 0800 652 3669
Website: www.aqualisa.co.uk | Email: enquiries@aqualisa.co.uk
Warranty: www.aqualisa.co.uk/warranty

Republic of Ireland
Sales enquiries: 01-864-3363
Service enquiries: 01-844-3212



Please note that calls may be recorded for training and quality purposes.

The company reserves the right to alter, change or modify the product specifications without prior warning.

™ Trademark of Aqualisa Products Limited.



Part No: 704452 Issue 01 Aug 19