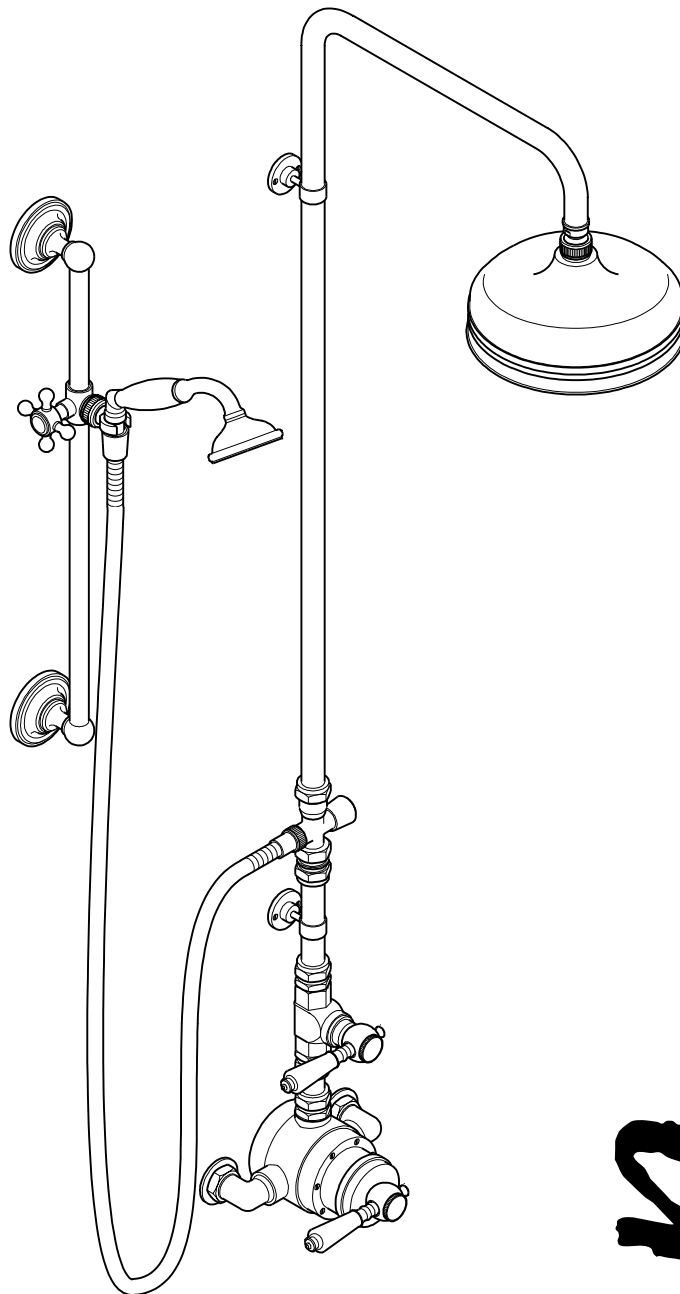


Grandé

THERMOSTATIC

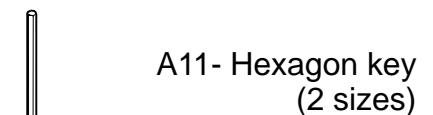
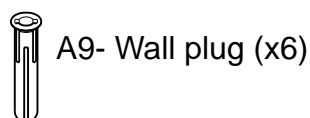
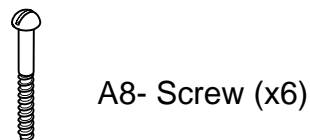
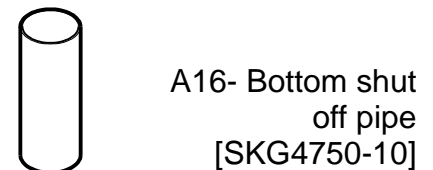
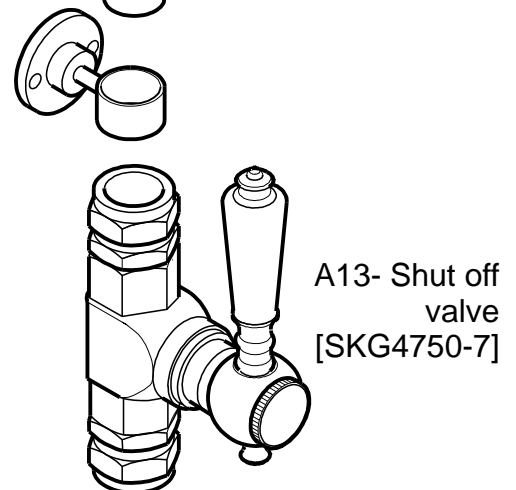
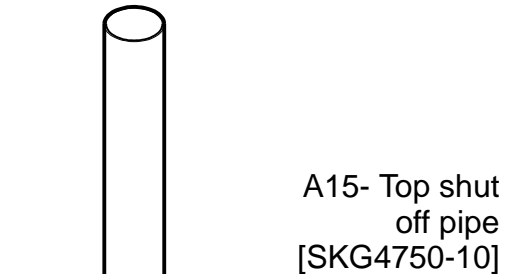
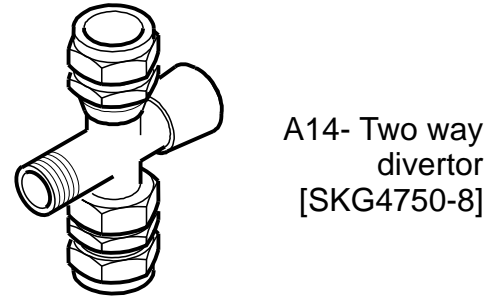
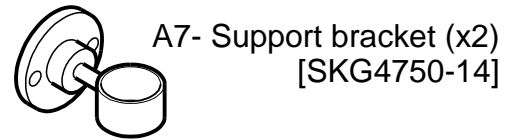
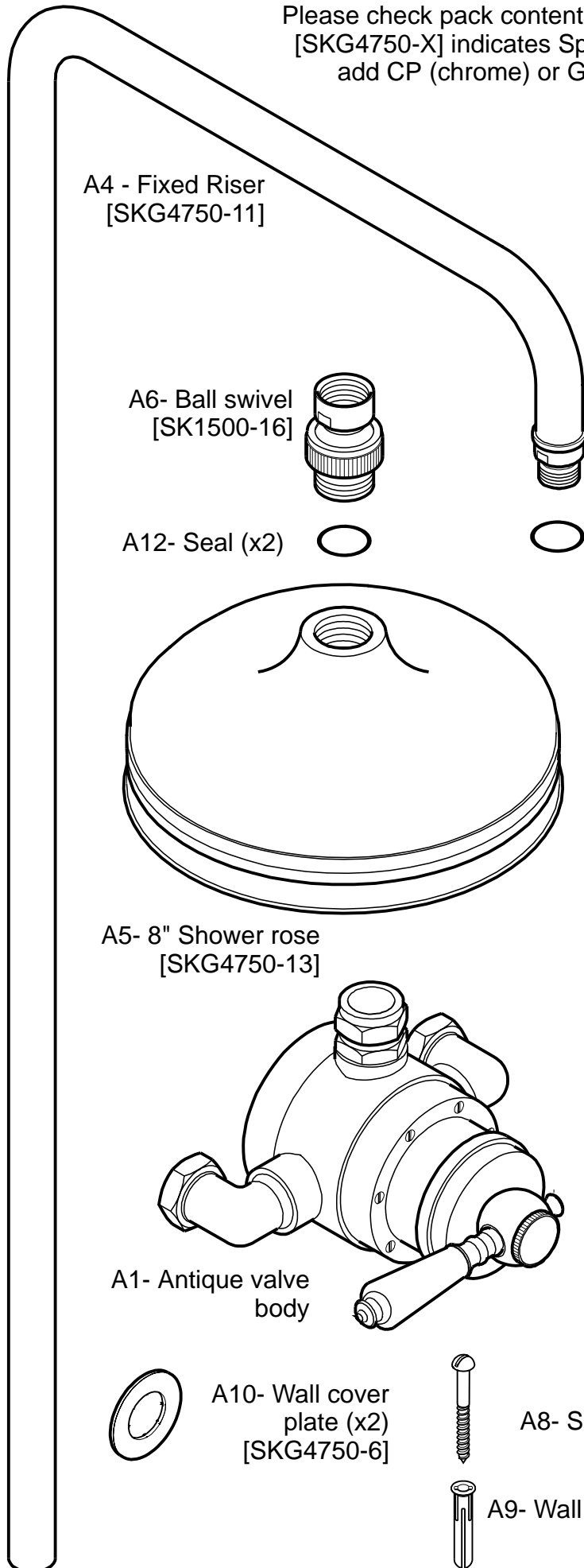


Renaissance

Installation, Operating and Maintenance Guide

Grande Rigid Shower Kit

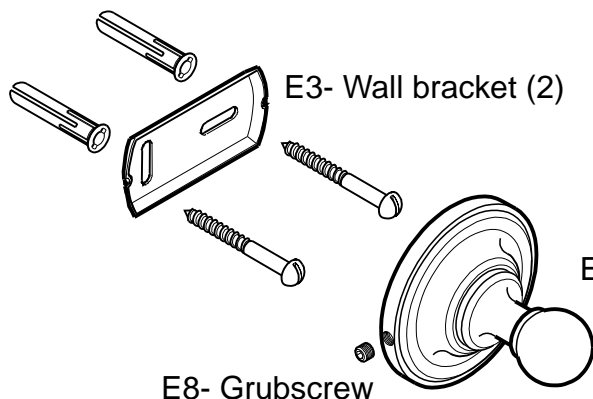
Please check pack contents is complete
[SKG4750-X] indicates Spare number
add CP (chrome) or GP (gold)



Antique Slide Rail Kit

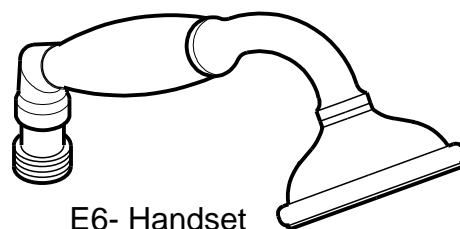
Please check pack contents is complete

Slide Rail Spare number [SKG4750-12]
add CP (chrome) or GP (gold)

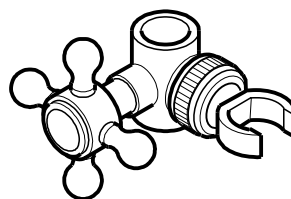


E7- Wall plate (2)

E8- Grubscrew



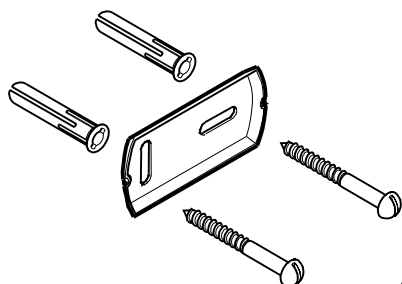
E6- Handset



E2- Handset adjusting
bracket

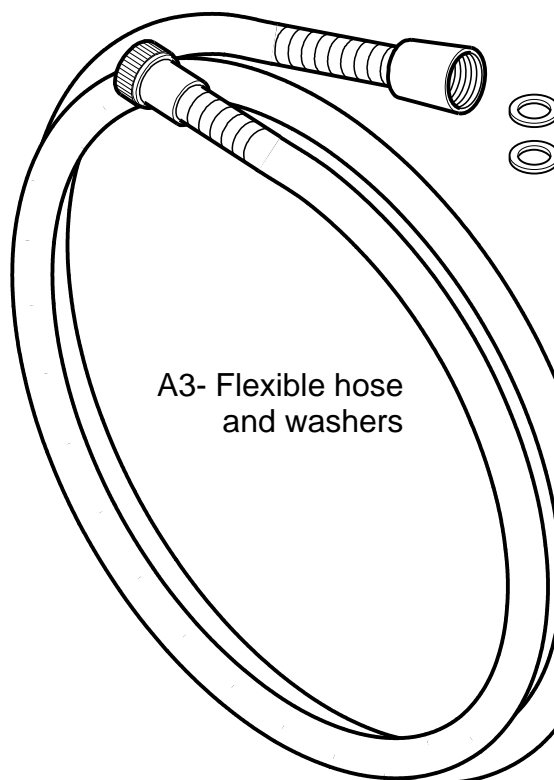
E1- Slide bar

E4- Wall plug (4)



E5- Screw (4)

E9- Hexagon key



A3- Flexible hose
and washers

Introduction

Description

The mighty Grandé thermostatic available as exposed fitting, in a choice of chrome or antique gold. With separate controls for temperature and flow gives the user total control.

The Grandé ¾" thermostatic dual lever mixer incorporates a wax temperature sensing capsule which provides almost immediate response to pressure and temperature changes of the incoming water supplies to maintain the selected temperature.

The mixer has hot and cold inlet connections, with integral checkvalves fitted and a top outlet for rigid and flexible shower fitting controlled via the diverter mechanism.

Designation

Thermostatic mixing valve ¾" (DN20*), with diverter, visible, moveable and fixed outlet, shower, vertical mounting.

* **Note!** DN20 is the Australian nominal size designation, adaptors are available to convert inlets or outlet to comply with AS 3688.

Specification

General

The installation, commissioning and maintenance must be carried out in accordance with instructions supplied and be installed by qualified and competent persons.

Installations must comply with all Local and National Water Authority Regulations, and Building and Plumbing Regulations.

Temperature Control

Minimum cold water temperature: **5°C**

Maximum cold water temperature: **20°C**

Maximum hot water temperature: **85°C**
(a temperature of 60-65°C is recommended for ablutionary installations)

Note! A suitable hot water temperature control device should be installed to reduce temperatures exceeding the above maximum hot water temperature.

Minimum temperature differential between hot supply and outlet temperature: **10°C**
(eg. shower temperature 43°C: minimum hot supply 53°C)

Factory pre-set temperature: **43°C**

Thermostatic control range: **38-45°C**

Operating pressures

Minimum dynamic pressure (gravity): **0.5 bar** (50 kPa) or 5 metre head of water

Maximum dynamic pressure (mains): **5.0 bar** (500 kPa)

Maximum static pressure: **10 bar** (1000 kPa)

Maximum pressure differential: **10:1** (either supply) eg. Cold 1 bar (100 kPa): Hot 0.1 bar (10 kPa)
For optimum performance, supply pressures should be **equal**.

Note! A suitable pressure control device should be installed to reduce supply pressures exceeding the above maximum pressure specification (see **Compatible Systems**).

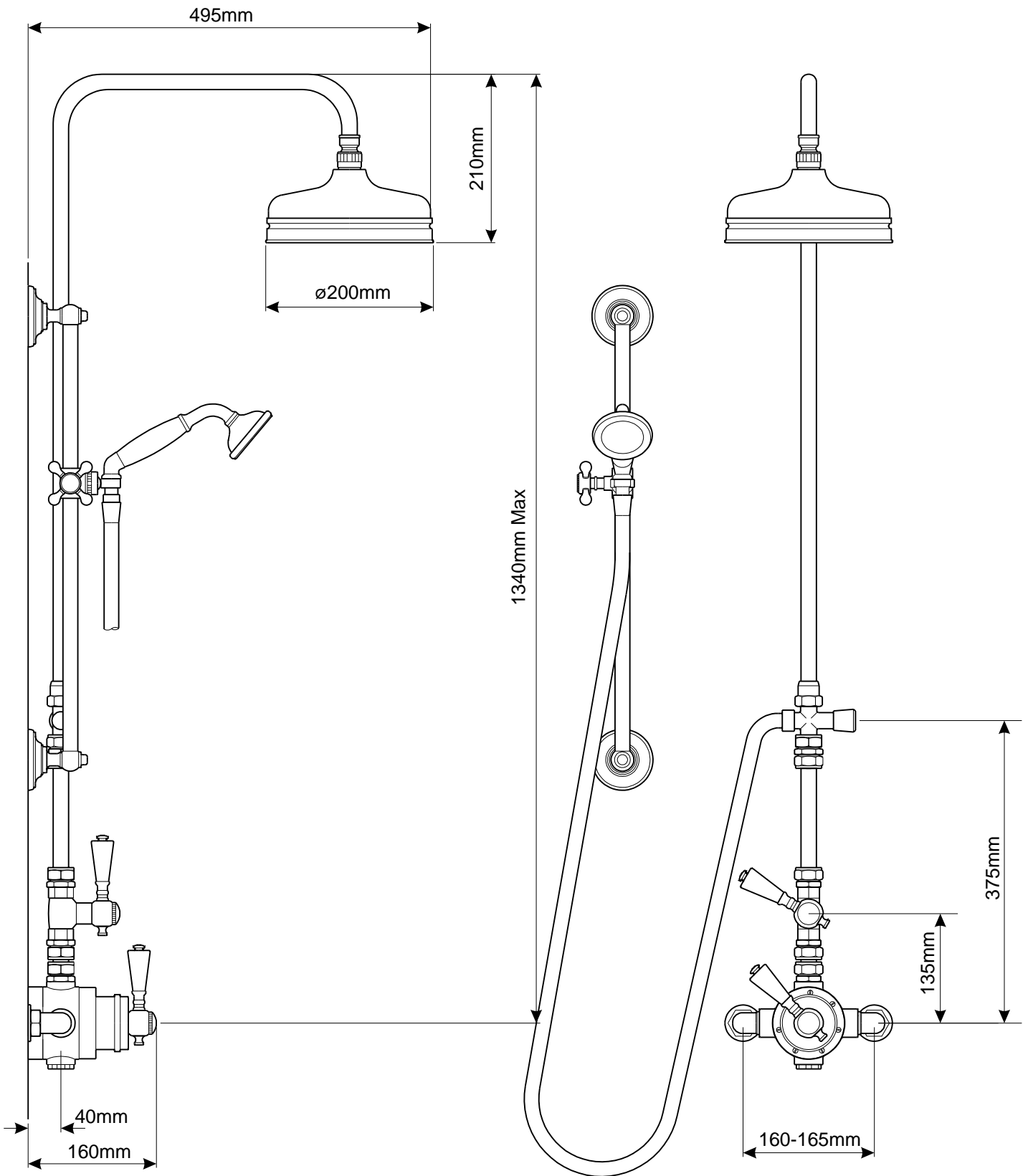
Flow Performance

Flow rates shown are through Fixed Rose¹ and Handset² respectfully.

Pressure Loss (bar)	0.5	1.0	1.5	2.0	2.5	3.0	3.5
Pressure Loss (kPa)	50	100	150	200	250	300	350
Flow Rate¹ (litres/minute)	8.5	11	15	17	20	22	24
Flow Rate² (litres/minute)	8.0	11	13	15	17	19	21

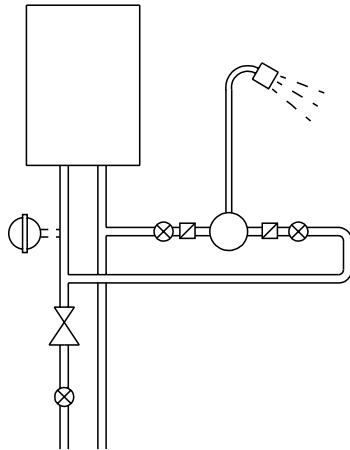
Dimensions

Grandé









Compatible Systems

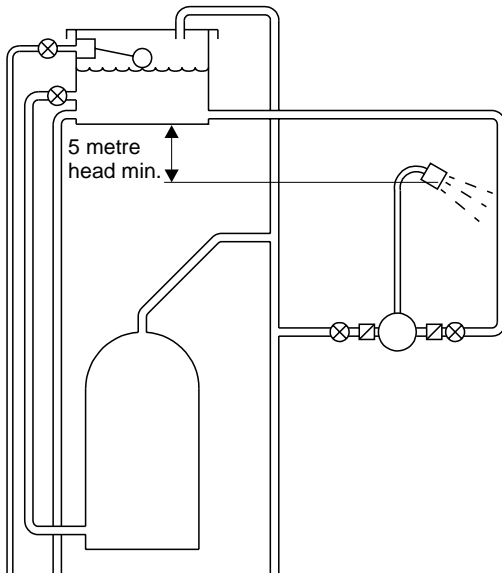
Instantaneous heated system



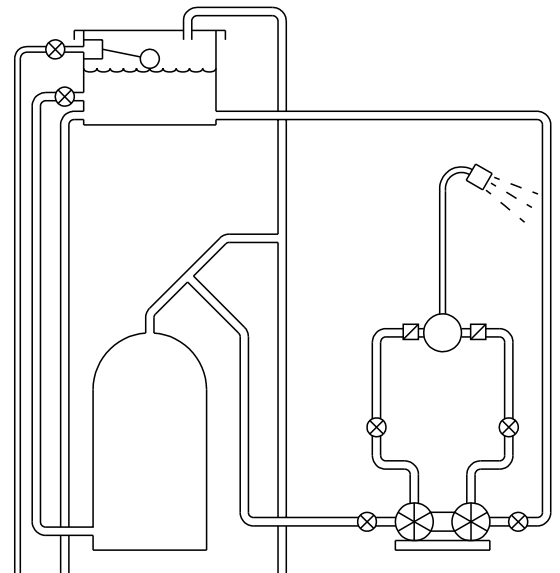
Key

-  Shower inc. non-return valves
-  Isolating valve
-  Tempering valve
-  Pressure regulating valve
-  Strainer
-  Expansion vessel (optional)

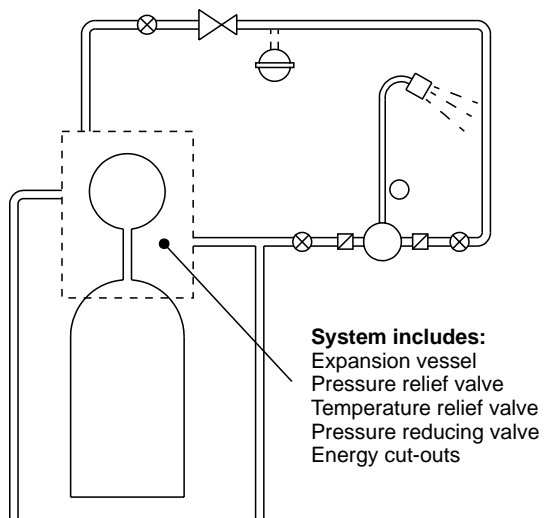
Gravity fed system



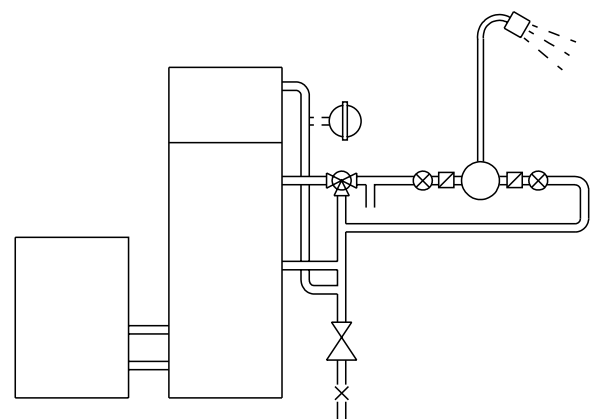
Pumped system



Unvented mains pressure system



Mains pressurised hot water system



Installation

General

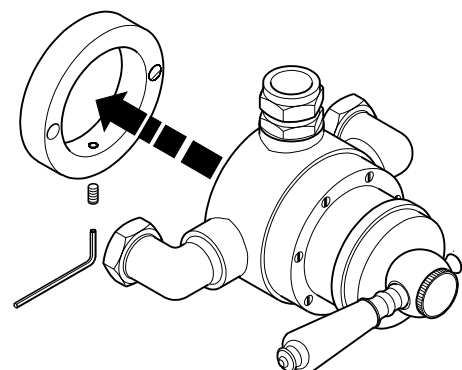
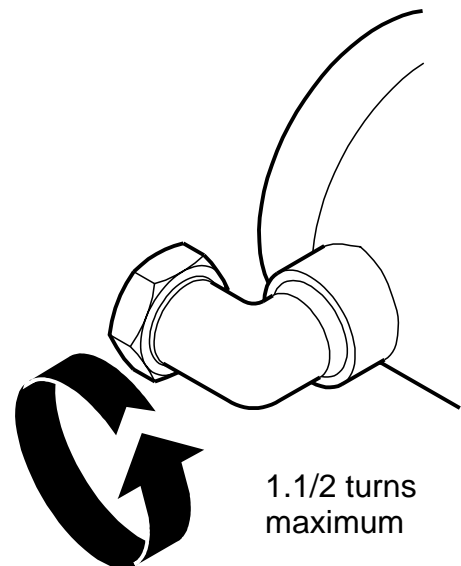
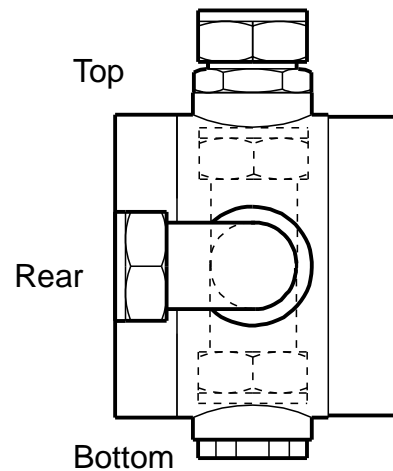
1. The installation, commissioning and maintenance must be carried out in accordance with instructions supplied and be installed by qualified and competent persons.
2. Installations must comply with all Local and National Water Authority Regulations, and Building and Plumbing Regulations.
3. Ensure all site requirements correspond to the information in the **Specification** section.
4. **Do not** install the unit where it could become frozen.
5. Accessible isolating valves **must** be fitted for service.
6. Supply pipework **must** be flushed before connecting mixing valve.
7. Fitting inlet strainers is recommended to ensure no debris enters mixing valve.
4. If unit is concealed, ensure serviceable access is maintained.

Step A: Valve body installation

1. Before mounting the valve to the wall the position for pipework should be decided. Three inlet positions - Top, bottom and rear are available simply by rotating the elbows in the valve body.

With the elbow screwed fully against the valve body it can be unscrewed 1.1/2 turns to allow for lateral tolerance.

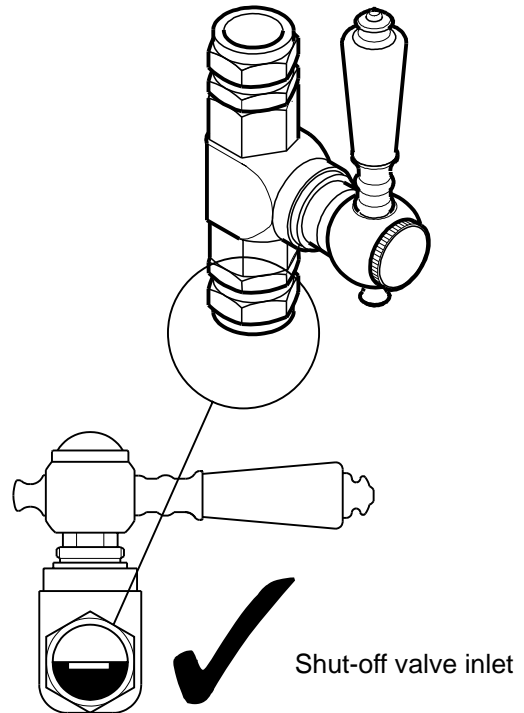
2. By removal of the backplate the valve body base clearly identifies the hot inlet and cold inlet elbows. It is important to connect these correctly.
3. Use the backplate as a template to mark position of the fixing holes.
4. Drill and plug the wall to suit screws provided and secure backplate to wall.
5. Locate valve body into backplate and lock with grub screw.
6. Connect inlet pipes to elbows.
7. Top or bottom outlet can be achieved by simply using the blanking plug and o ring to blank off outlet not required.



Installation

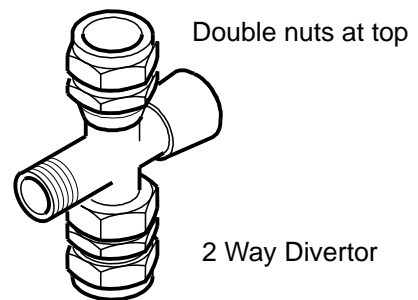
Step B: Shut off valve installation

1. Ensure the Shut off valve (A13) is the correct way up (Fig B) secure bottom shut off pipe (A16) to the bottom outlet & top shut off pipe (A15) to the top outlet using nuts & olives provided.
2. Place support bracket (A7) over top shut off pipe (A15).
3. Insert bottom shut off pipe (A16) into top outlet of valve body (A1). Using support bracket (A7) as a template mark out two fixing holes. Remove shut off valve (A13). Drill and plug the wall to suit screws provided.
4. Refit shut off valve (A13) securing to top outlet of valve body with nut and olive provided.
5. Secure support bracket (A7) to wall with screws provided.



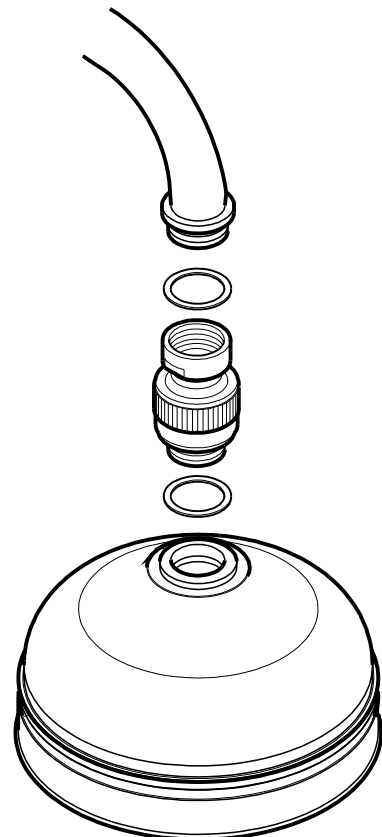
Step C: Two way diverter installation

1. Ensure the Two way diverter (A14) is the correct way up secure bottom outlet to top shut off pipe (A15) of the shut off valve using nut & olive provided.



Step D: Fixed riser and rose installation

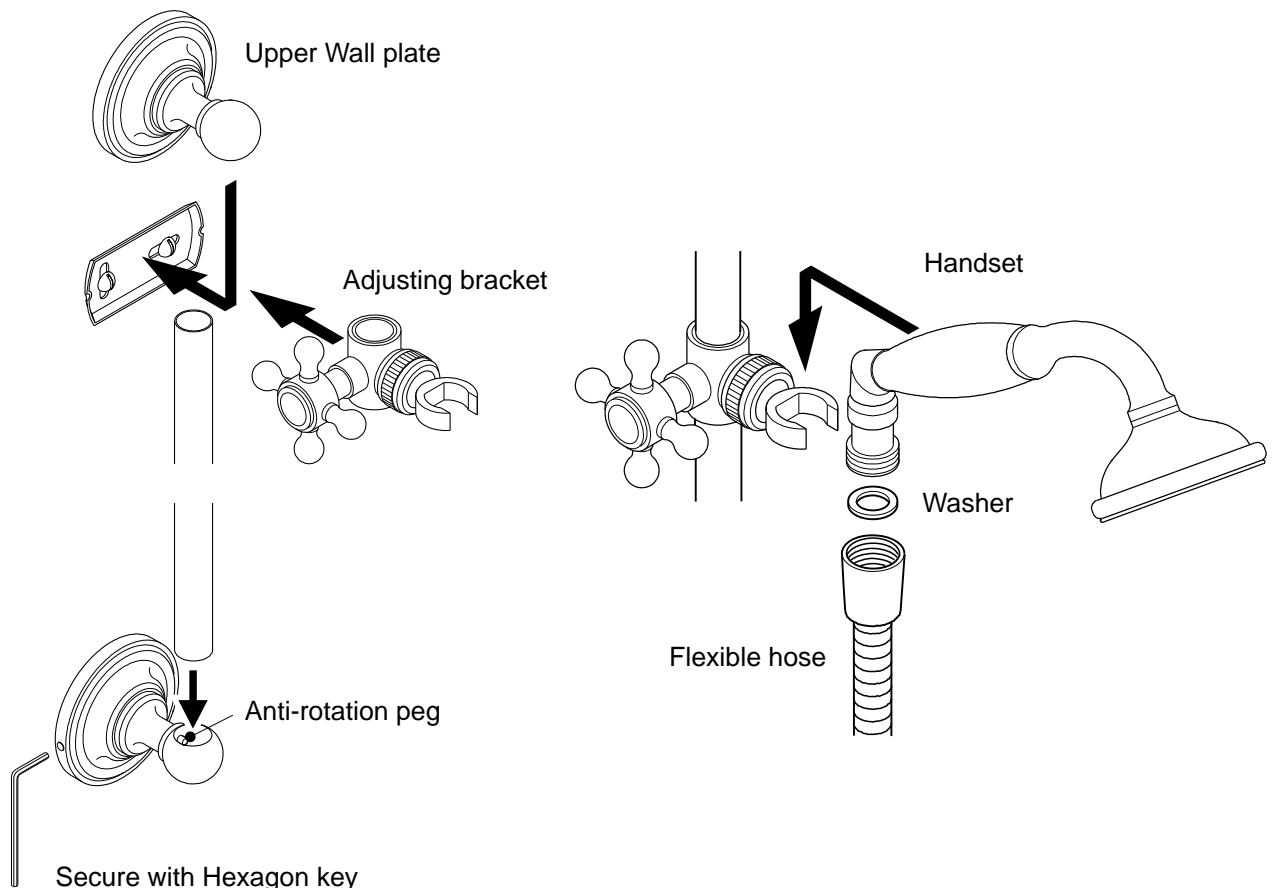
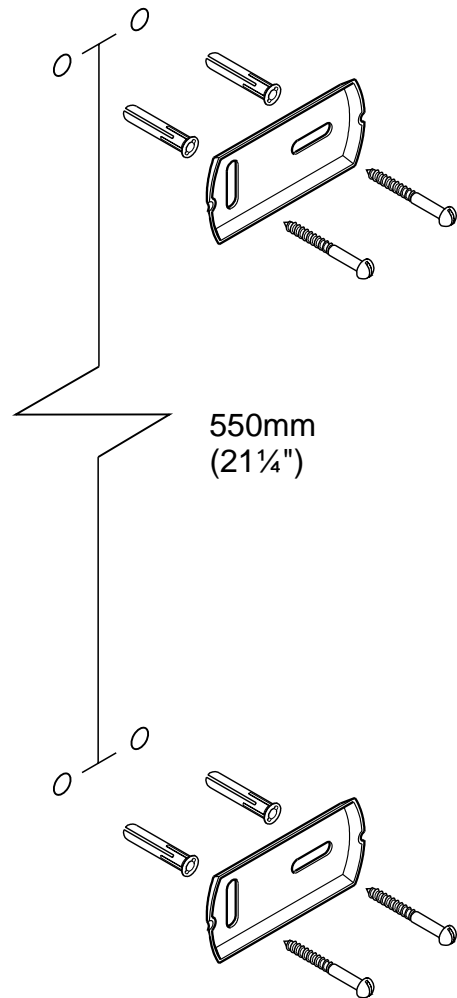
1. Slide the support bracket (A7) onto the fixed riser (A4). Then insert the fixed riser into the top outlet of the two way diverter (A14). Using the support bracket (A7) as a template mark out two fixing holes.
2. Remove fixed riser (A4). Drill and plug wall to suit screws provided.
3. Refit fixed riser (A4) into two way diverter (A14) top outlet and secure with nut and olive.
4. Secure support bracket (A7) to wall using screws provided.
5. Ensure that seals (A12) have been placed on rose/fixed riser connectors, screw ball swivel (A6) into fixed riser outlet and tighten. Then screw rose onto ball swivel (A6).



Installation

Step E: Slide bar kit installation

1. In the desired position for the slide bar mark out 2 holes approximately 550mm vertically apart.
2. Drill and plug holes to suit screws and rawplugs provided . Secure top and bottom wall brackets (E3) to wall.
3. Align top & bottom wall brackets (E3) horizontally and mark remaining two holes.
4. Drill and plug two holes. Secure wall brackets (E3) in position with remaining screws.
5. Place wall plate (E7) over bottom wall bracket (E3) and secure with grubscrew (E8).
6. Slide handset adjusting bracket (E2) over slide bar (E1) and insert slide bar into bottom wall plate (E7).
7. Place top wall plate (E7) over slide bar (E1) and secure to wall bracket (E3) with grubscrew (E8).
8. Once steps (A - E) have been completed, connect handset (E6) to two way diverter (A14) using hose (A3) and place handset (E6) into handset adjusting bracket (E2).

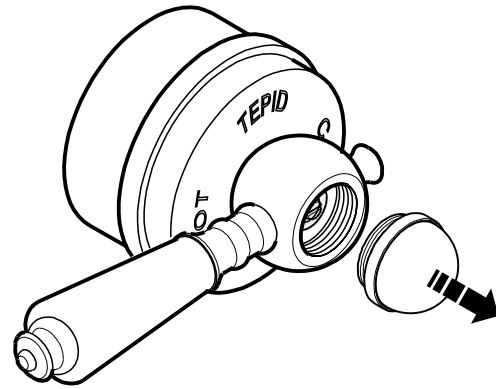


Commissioning

Grandé

Temperature Adjustment

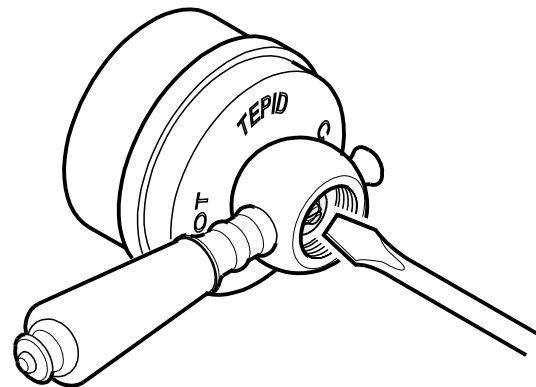
1. Unscrew and remove the centre indice to reveal retaining screw.



2. Turn the flow valve on, the temperature control fully anticlockwise to the maximum hot position.

3. Remove the retaining screw using a suitable screwdriver.

Note! water will flow from the centre hole - this is **normal**.

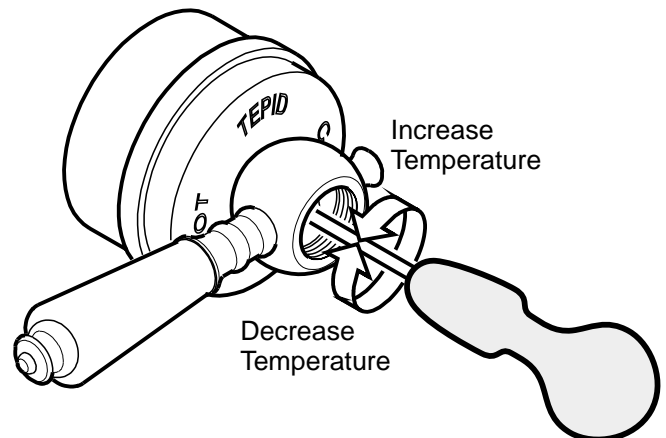


4. Using a small thin bladed screwdriver, locate the temperature adjusting screw.

5. To increase temperature turn anticlockwise. To decrease temperature turn clockwise.

6. Replace the retaining screw once the desired temperature is set.

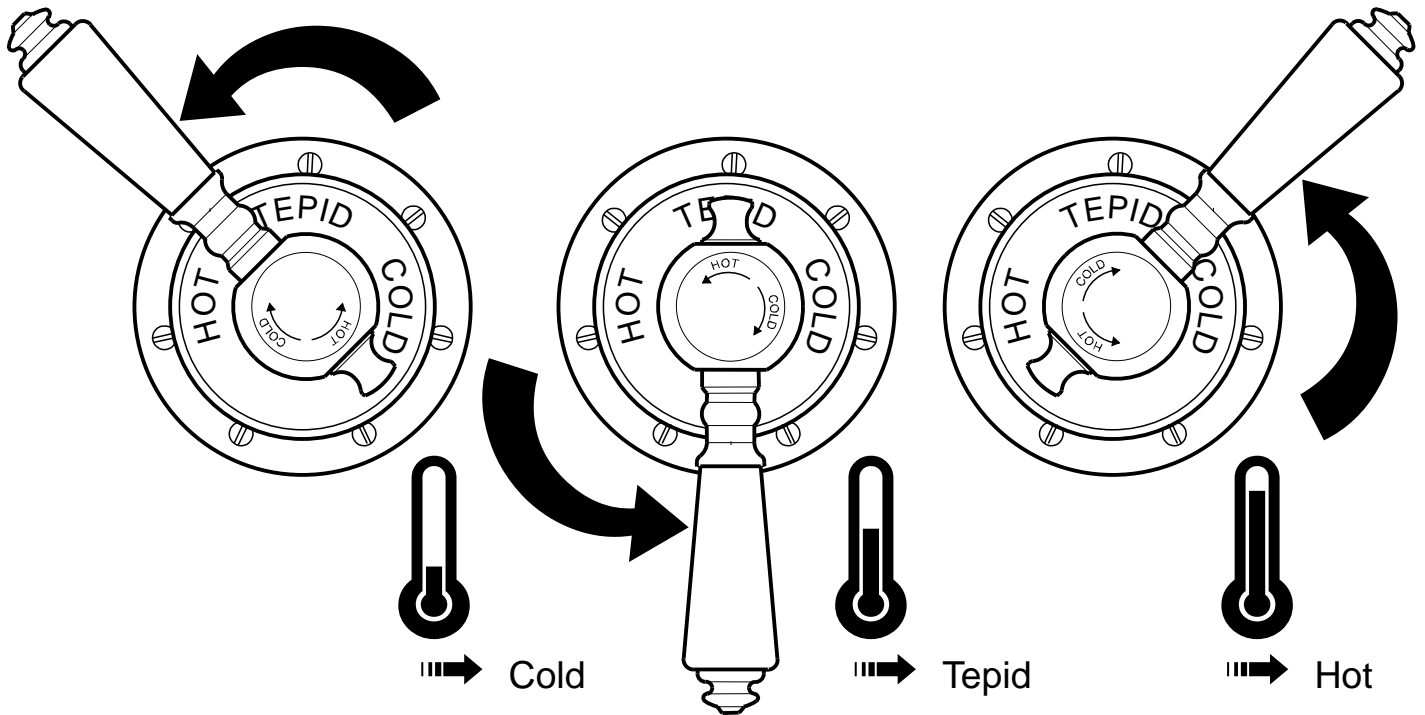
7. Turn the shower off and replace the centre indice.



Operation

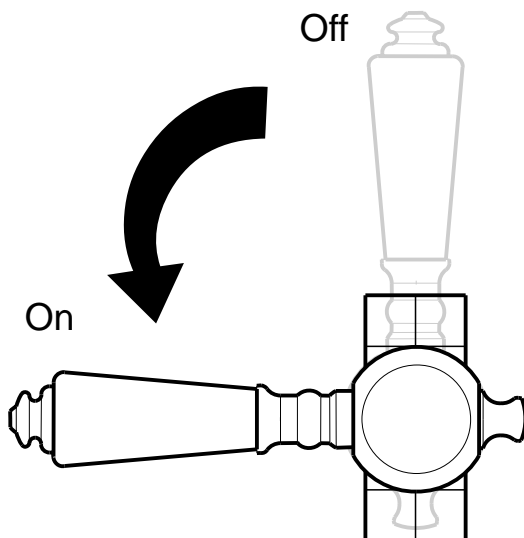
Temperature Control

The main shower control operates the shower temperature. Turning the shower control anticlockwise starts the sequence below:



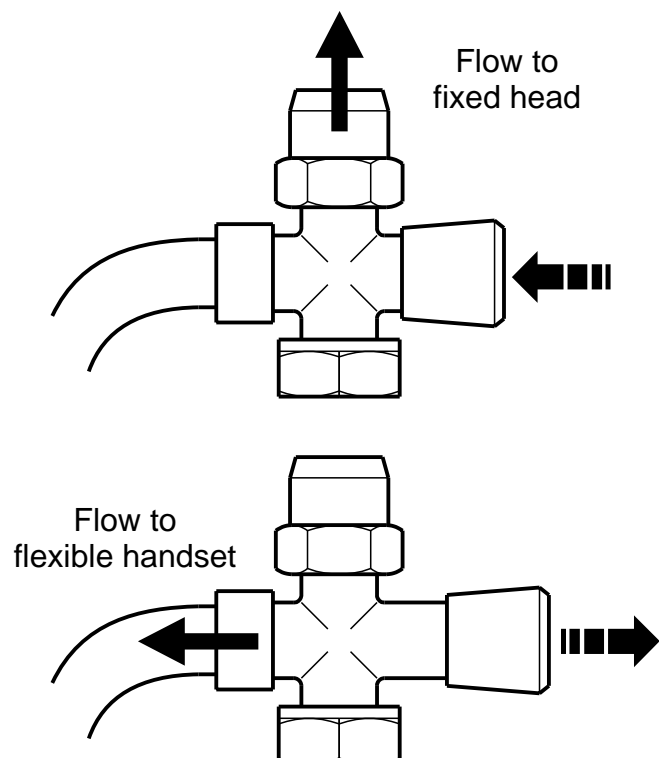
Flow Control

The shut-off valve turns the flow on or off. With a $\frac{1}{4}$ turn, the flow may be set anywhere between on or off setting.



Divertor Control

The diverter directs the flow to desired outlet. When pushed in the flow is to fixed head, pulled out, flow is to flexible handset.



Fault Finder

Grandé

Fault	Cause	Rectification
No or reduced flow and/or fluctuating temperature.	<ul style="list-style-type: none"> - Shower head blocked. - Isolating valve partially closed. - Instantaneous boiler cycling on and off as flow rate/pressure too low. - Gravity head of water below minimum required. - Blockage in supplies/mixing valve. - Other draw offs in use causing pressure or temperature changes. - Supply pressures unequal. - Flow limiters incorrectly fitted. - Air lock in system. - Shower cross circulating. - 2 way diverter valve upside down. 	<ul style="list-style-type: none"> - Clear debris from shower head. - Open valve. - Check boiler settings are correct. Contact boiler manufacturer. - Raise tank or fit pump. - Dismantle and check for debris. Flush supplies before refitting. - Do not use other draw offs whilst showering. - See maximum pressure differential in Specifications. - Check Application Selection. - Check System Requirements for correct installation method. - Check non return valves and condition of seals. - Install correct way around.
Maximum outlet temperature too hot or too cold.	<ul style="list-style-type: none"> - Maximum temperature incorrectly set. 	<ul style="list-style-type: none"> - Reset maximum temperature. Refer to Instructions.
Maximum temperature too cold or runs cold after a short time (maximum temperature set or fully adjusted).	<ul style="list-style-type: none"> - Hot water is less than 10°C above the outlet temperature required. - Insufficient hot water supply or storage (running out of hot water). - Instantaneous boiler not igniting as water flow rate/pressure too low. 	<ul style="list-style-type: none"> - Adjust tank temperature to 60-65°C. Ensure hot water is up to temperature. - Check tank or heater capacities. Low capacity equals shorter showering time. - Increase flow through system. Increase pressure in system. Check for blockages. Contact boiler manufacturer.
Only hot or cold water at outlet	<ul style="list-style-type: none"> - Inlet supplies reversed/backwards. - Inlet supplies blocked. 	<ul style="list-style-type: none"> - Ensure supplies are connected correctly to hot and cold inlets. - Clean out debris.
Shower will not shut off or leaking from body.	<ul style="list-style-type: none"> - Seal damage or wear. - Scale build up inside mixer. - Inlet pressures above maximum recommendations. 	<ul style="list-style-type: none"> - Renew all seals. - Dismantle and check for debris. - Ensure supply pressures are within Specification. Fit pressure regulating valve if necessary.
No thermostatic fail safe.	<ul style="list-style-type: none"> - Inlet temperatures not within specification. - Piston assembly jammed. - Thermostat failure. - Debris trapped in mechanism. - Inlet supplies reversed. 	<ul style="list-style-type: none"> - Check inlet temperatures, hot supply should be 10°C higher than shower outlet temperature. - Dismantle and check for debris. - Replace thermostat. - Dismantle and check for debris. - Ensure supplies are connected correctly to hot and cold inlets.

Care and Maintenance

Grandé

Cleaning

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

These finishes should be cleaned using a mild washing up detergent or soap solution, rinsed with clean water and wiped dry with a soft cloth.

Routine Maintenance

The frequency and extent of attention required will vary according to prevailing site and operational conditions, however a 12 monthly maintenance schedule is recommended.

If the shower mixer has operated satisfactorily for some time, but performance has been degraded, please check the **Fault Finder** section to identify the problem.

Maintenance Check List

- ✓ Worn or damaged seals and washers
- ✓ Damaged seal faces
- ✓ Thread wear
- ✓ Incorrect adjustment
- ✓ Component failure
- ✓ Debris or limescale build-up

Service Guide


1. Isolate hot and cold supplies.
2. Unscrew and remove ceramic indice from the control lever.
3. Remove retaining screw (1) from centre of control lever and remove control lever and indicator plate, remove sleeve by loosening grub screw.

4. Using a spanner 29mm A/F on the flats of the head (3), unscrew anticlockwise and remove.
5. Access to the thermostat (7), once the head assembly has been removed.

Disassemble Head

6. Remove the circlip (2) and push spindle (4) from head.
7. Unscrew Spindle from spindle housing (5).
8. Using a flat bladed screwdriver remove adjusting screw (6) from inside spindle housing.

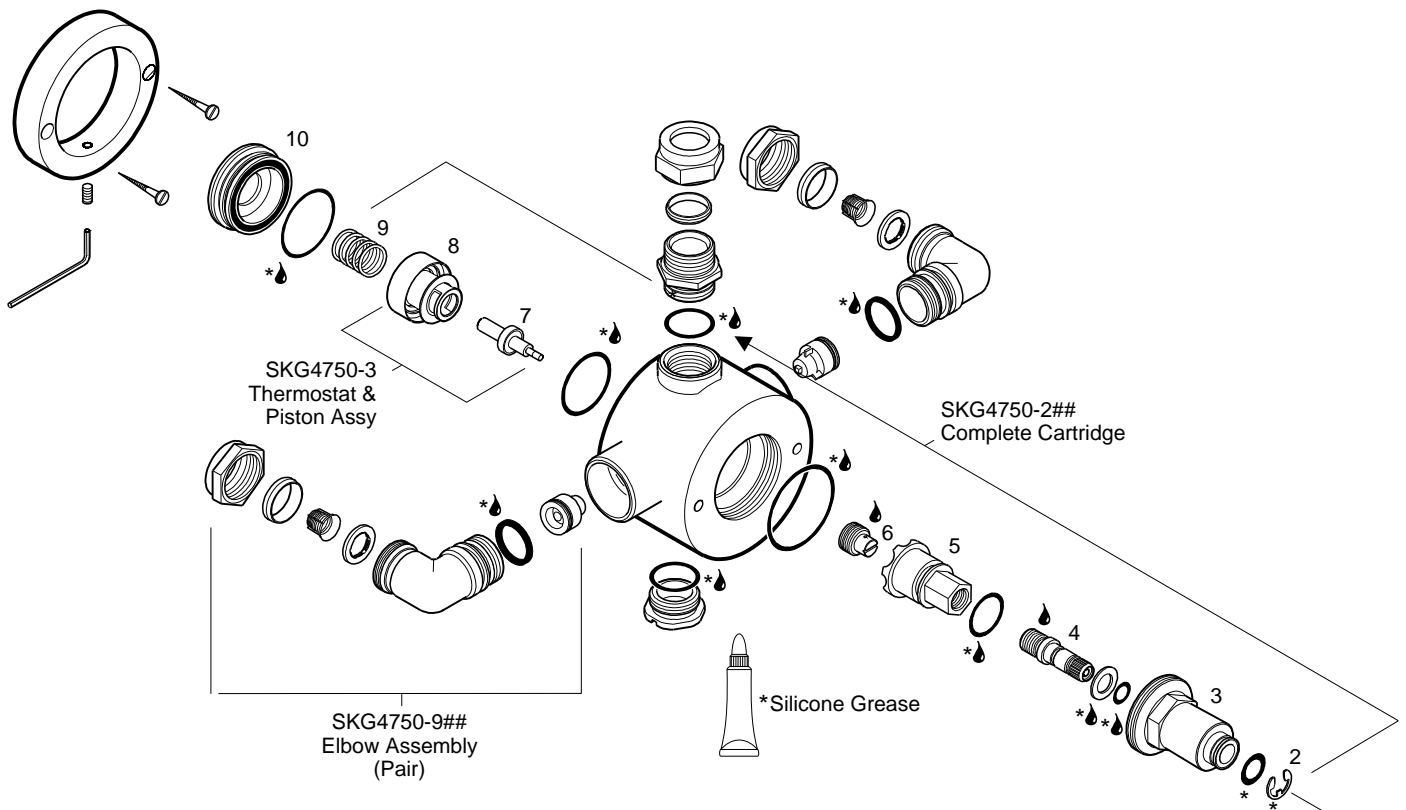
Note! To access the piston assembly (8), spring (9), bottom cap (10) and inlet filters the mixer has to be removed from the wall bracket.

9. Remove serial label from base, unscrew bottom cap (10) using screwdriver, turning anticlockwise.
10. Remove spring (9) and push the piston assembly (8) from within the body.
11. Remove all seals and washers and soak metal components in a kettle descaler, following descaler manufacturers instructions.
12. Replace worn or damaged seals or washers.
13. Ensure seals are fitted to their respective components. Grease seals and components marked thus  .
14. Reassemble the components. Assembly is reversal of the dismantling sequence.

Important! To set the bottom cap correctly, reassemble piston assembly and spring in to body, screw the bottom cap up to stop, mark slot position and unscrew $\frac{3}{4}$ of a turn.

Spare Parts

Grandé



Shower Kit Spares

SKG4750-6##	Elbow cover plate (pair)
SKG4750-7##	Shut off valve
SKG4750-8##	Two way diverter
SKG4750-10##	Valve connector kit
SKG4750-11##	Shower arm kit
SKG4750-12##	Slide bar kit and hose
SKG4750-13##	8" Rose kit
SKG4750-14##	Support bracket kit
SK1500-16##	Ball swivel kit

Note!

suffix denotes finish:

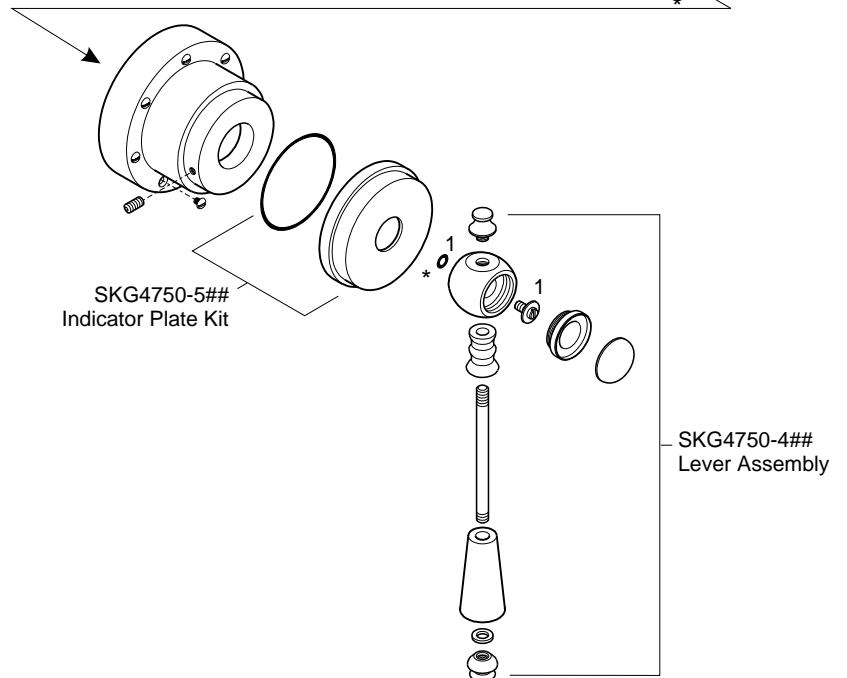
CP - Chrome

GP - Gold

* Indicates parts contained in:

SKG4750-1 Seals Kit

☛ Denotes grease item.



Product Support

Guarantee

This product is guaranteed against faulty materials and workmanship for 12 months from date of purchase. For the guarantee to be valid, the unit must be installed by a competent person, in accordance with the instruction booklet.

Any part found to be defective during the guarantee period, will (at our option) be repaired or replaced, free of charge, provided the unit has been installed, and properly used in accordance with the instruction booklet.

This guarantee does not affect your statutory rights.

Renaissance

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