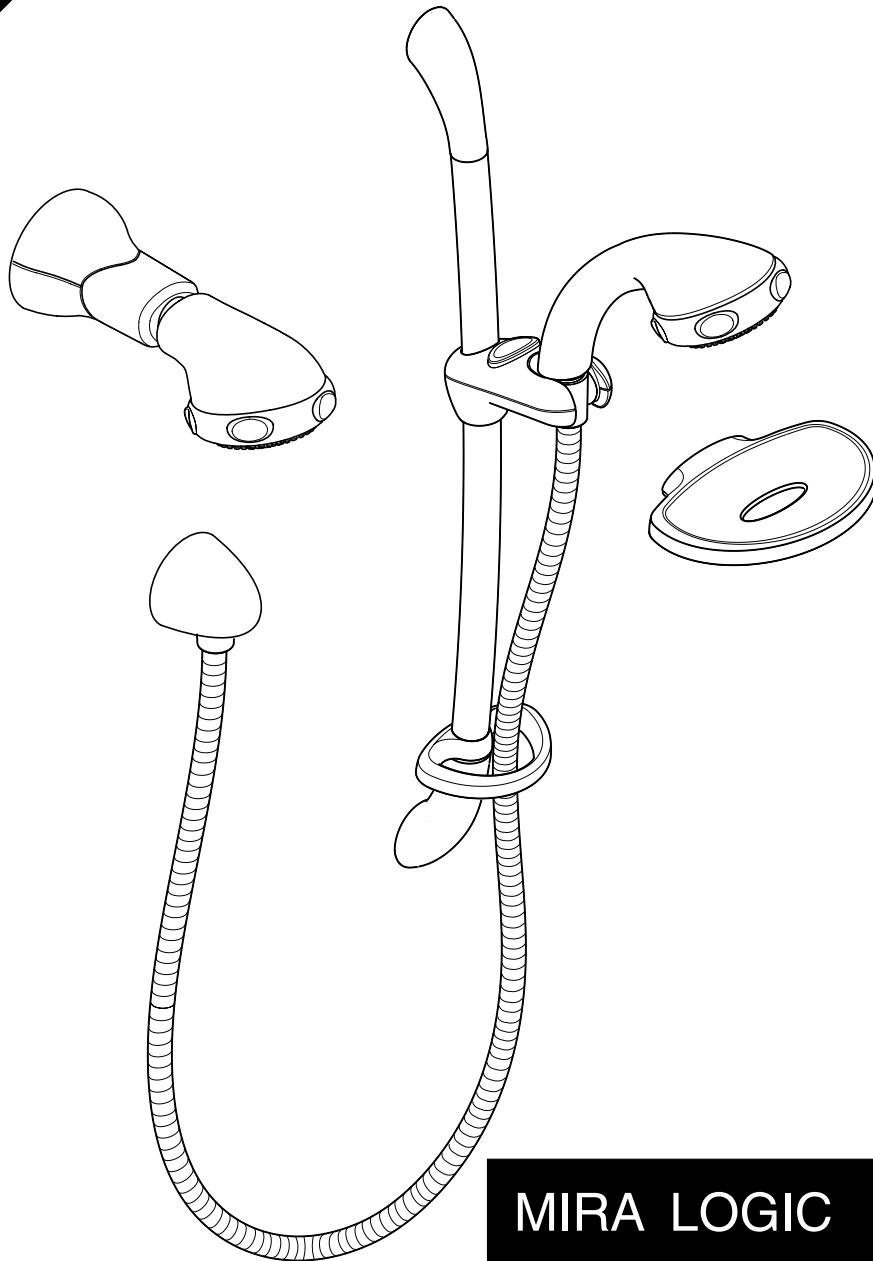


ADJUSTABLE RANGE

mira

SHOWER S



MIRA LOGIC

SHOWER FITTINGS

Installation & User Guide

THESE INSTRUCTIONS ARE TO BE LEFT WITH THE USER

Contents

	Page
Introduction	3
Important Safety Information	4
Pack Contents Checklist	5
Dimensions	7
Specifications	8
Installation Requirements	9
Installation	
Mira Logic ev - Exposed Variable Shower Fittings	10
Mira Logic biv - Built-in Variable Shower Fittings	16
Mira Logic bir - Built-in Rigid Shower Fittings	18
Operation	23
Fault Diagnosis	25
Maintenance	26
Spare Parts	28
Accessories	31
Guarantee, Customer Care Policy, and How to contact us	Back cover

Introduction

Thank you for purchasing a quality Mira product. To enjoy the full potential of your new product, please take the time to read this guide thoroughly, having done so, keep it handy for future reference.

Mira Logic Adjustable Shower Fittings

This Installation and User guide covers the following products:

Mira Logic Exposed Variable Shower Fittings (ev)

An adjustable spray handset with four different spray actions (start, soothe, force and eco*), supplied complete with flexible hose, clamp bracket assembly, slide bar, supports, hose retaining ring/gel holder and wall mounted soap dish. Available in chrome, satin chrome and white/gold finish.

Mira Logic Built-in Variable Shower Fittings (biv)

Offering the same features as the Logic ev but also includes a right angle connector (RAC). Suitable for connection to concealed pipework supplies. Available in chrome, white, satin/chrome and gold finish.

Mira Logic Built-in Rigid Shower Fittings (bir)

An adjustable spray built-in shower head with four different spray actions (start, soothe, force and eco*). Suitable for connection to concealed pipework supplies only. Available in white and chrome finish.

* The eco setting reduces the water flow to give economical use of water, whilst still giving an adequate shower performance. This setting performs best with most gravity, pumped, and mains pressure unvented systems. On electric showers and some combination boiler systems the economy setting will have no effect, and will give the same spray action as the start setting.

If you experience any difficulty with the installation or operation of your new shower fittings, then please refer to "**Fault Diagnosis**", before contacting Kohler Mira Limited. Our telephone and fax numbers can be found on the back cover of this guide.

Important Safety Information

Warning!

1. Products manufactured by us are safe and without risk provided they are installed, used and maintained in good working order in accordance with our instructions and recommendations.

Caution!

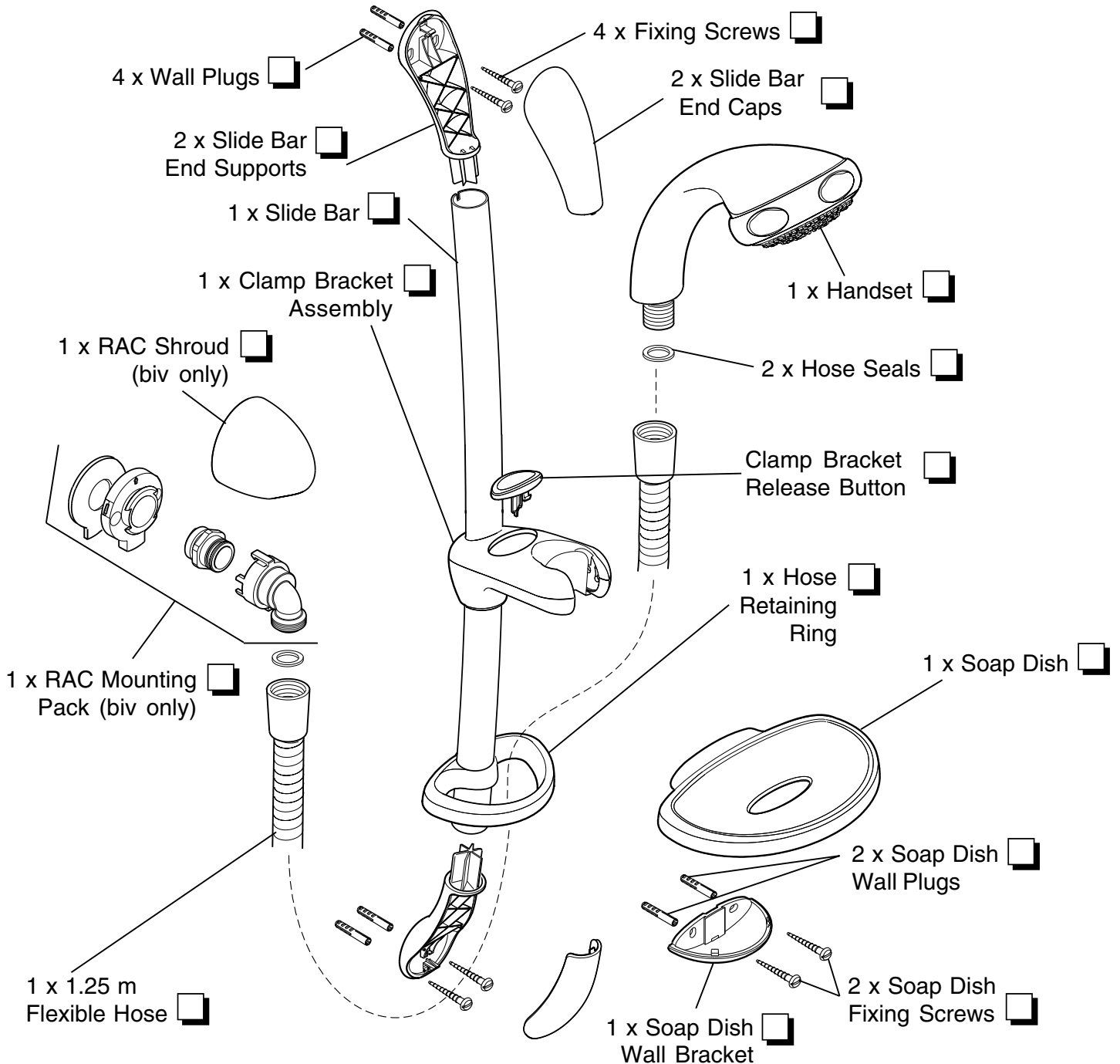
1. Read all of these instructions.
2. Retain this guide for later use.
3. Pass on this guide in the event of change of ownership of the installation site.
4. Follow all warnings, cautions and instructions contained in this guide.
5. The plumbing installation must comply with the requirements of UK Water Supply Regulations/Bye-laws (Scotland), Building Regulations or any particular regulations and practices, specified by the local water company or water undertakers. The installation should be carried out by a plumber or contractor who is registered, or is a member of, an association such as:
 - 5.1. Institute of Plumbing (IOP), throughout the UK.
 - 5.2. National Association of Plumbing, Heating and Mechanical Services Contractors (NAPH & MSC), England and Wales.
 - 5.3. Scottish and Northern Ireland Plumbing Employers' Federation (SNIPEF), Scotland and Northern Ireland.
6. Anyone who may have difficulty understanding or operating the controls of any shower should be attended whilst showering. Particular consideration should be given to the young, the elderly, the infirm, or anyone inexperienced in the correct operation of the controls.
7. When this product has reached the end of its serviceable life, it should be disposed of in a safe manner, in accordance with current local authority recycling, or waste disposal policy.

Pack Contents Checklist



Tick the appropriate boxes to familiarize yourself with the part names and to confirm that the parts are included.

Mira Logic ev & biv Shower Fittings Pack

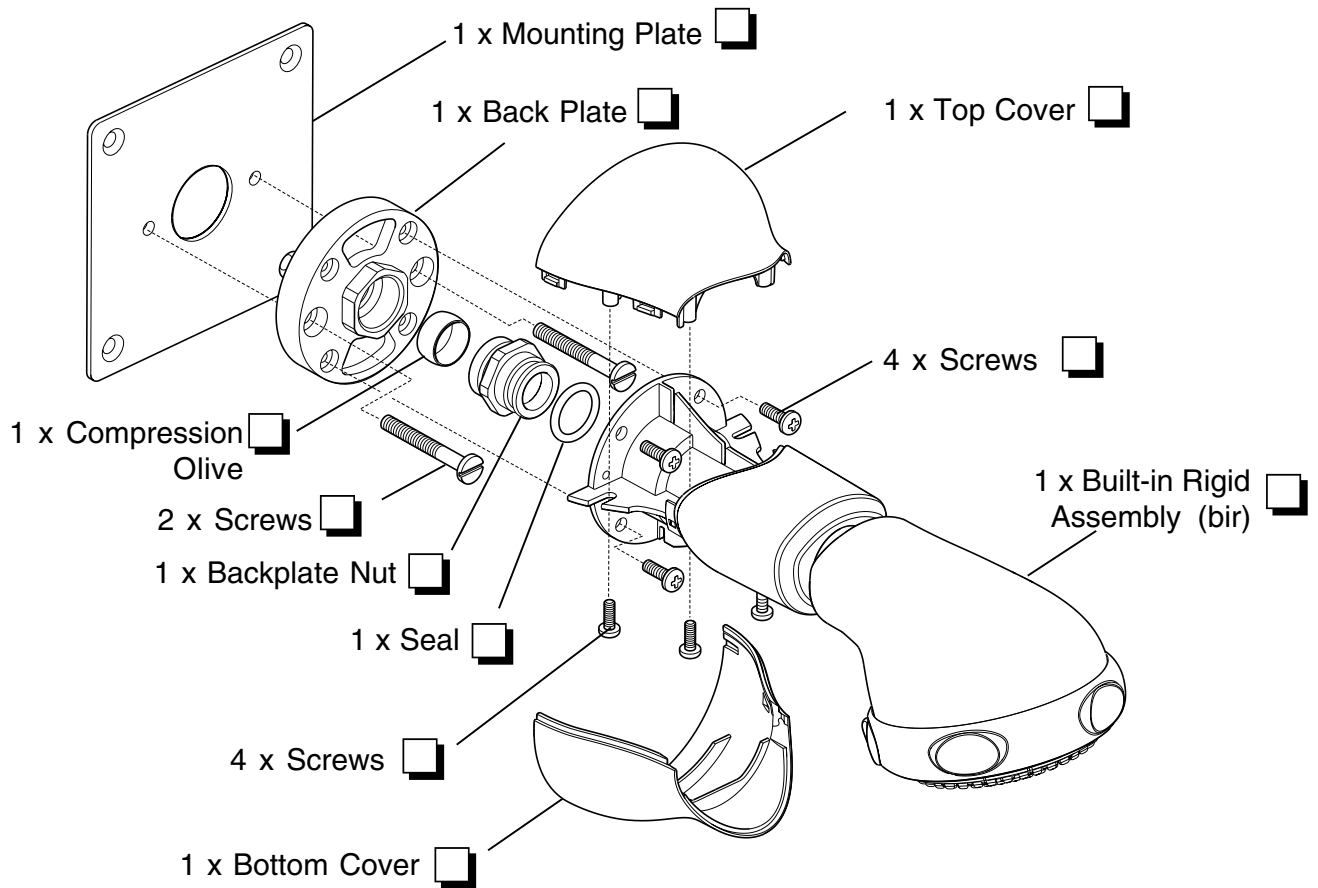


Documentation

1 x Installation and User Guide

1 x Guarantee Card

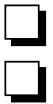
Mira Logic bir Shower Fittings Pack



Documentation

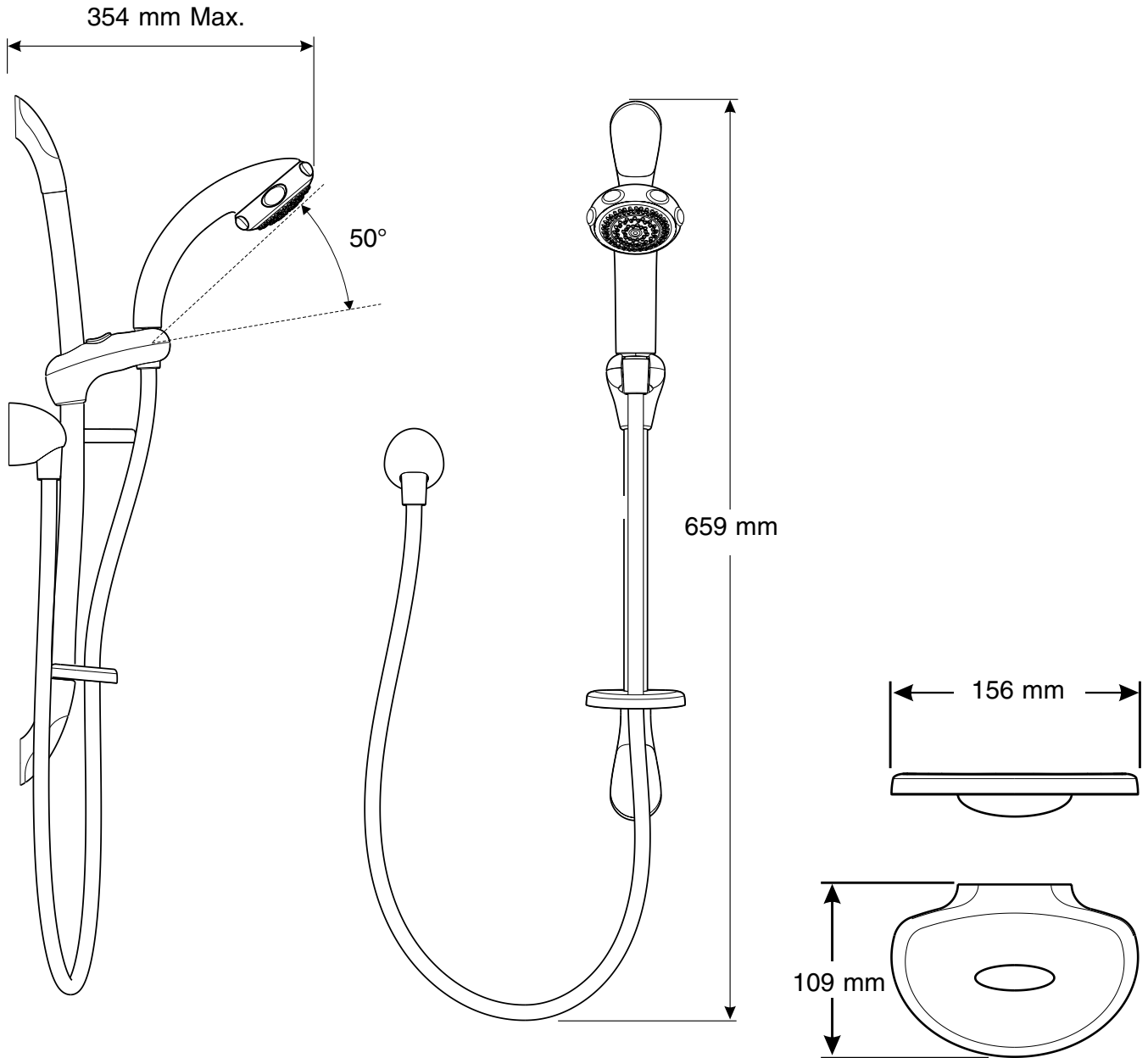
1 x Installation and User Guide

1 x Guarantee Card

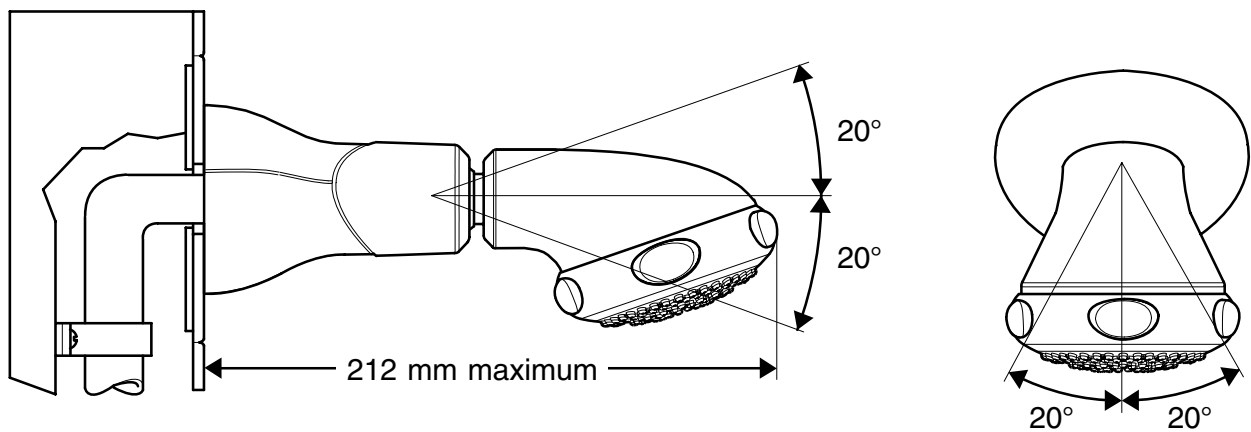


Dimensions

Mira Logic ev and biv



Mira Logic bir



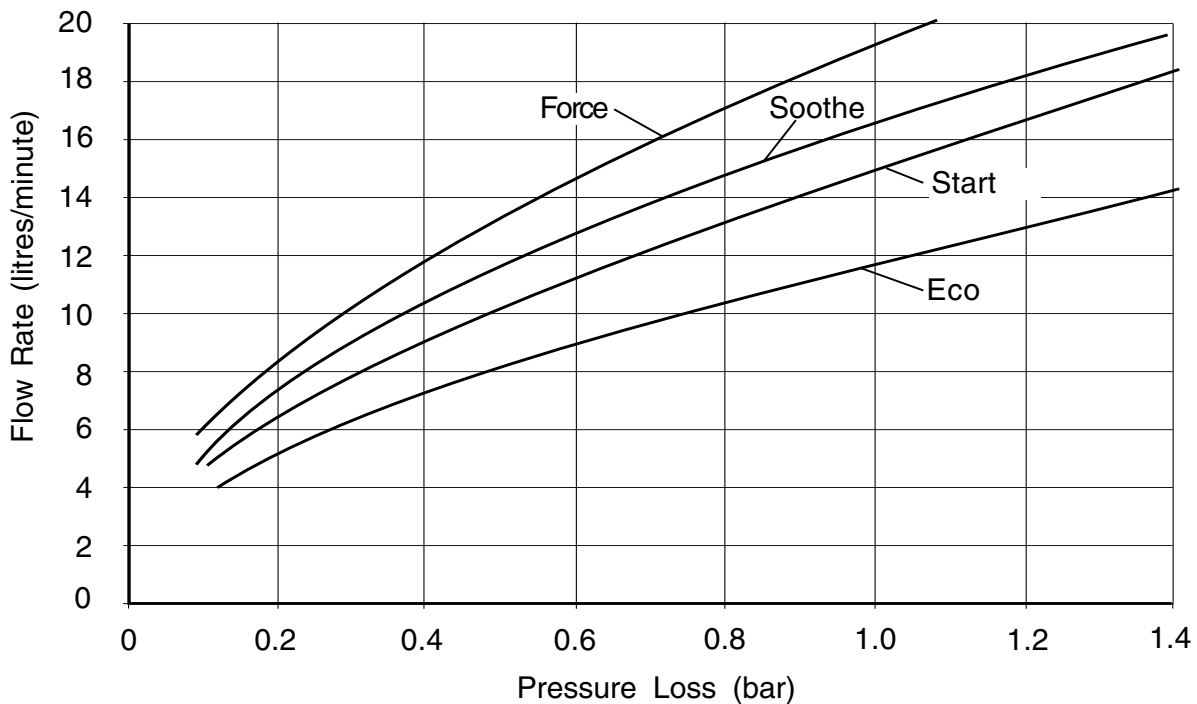
Specifications

Minimum maintained pressure: **6 kPa (0.06 bar)**.

Maximum maintained pressure: **500 kPa (5.0 bar)**.

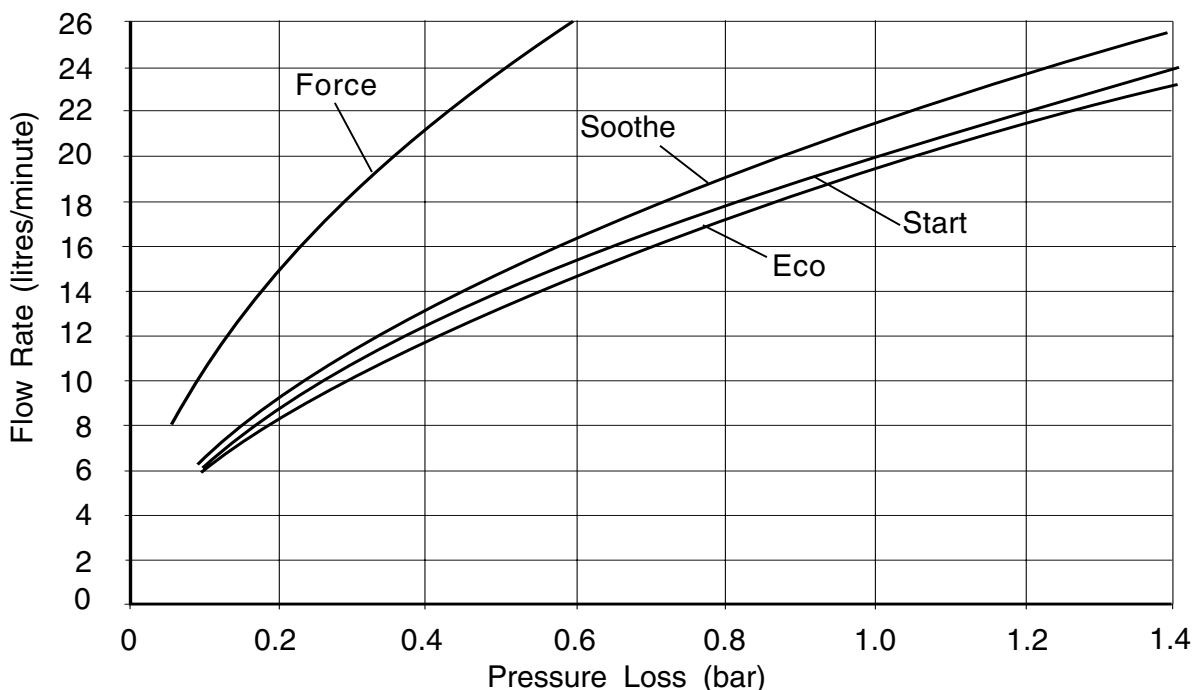
Warning! Exceeding the stated maximum maintained pressure could result in excessive spray forces and possible damage to the handset.

Mira Logic adjustable range flow rates - Low capacity nozzle rings fitted



Pressure loss = Pressure difference between the inlet and outlet of the fitting.

Mira Logic adjustable range flow rates - High capacity nozzle rings fitted



Pressure loss = Pressure difference between the inlet and outlet of the fitting.

Installation Requirements

Installation must be carried out in accordance with these instructions, and must be conducted by designated, qualified and competent personnel.

1. The hose retaining ring supplied **must** be used to stop the handset from dropping below the spill-over level of the bath or shower tray. This will prevent water contamination due to backsiphonage.
2. Installations **must** comply with UK Water Regulations/ Bye-laws (Scotland), and Building and Plumbing Regulations in force at the time of installation.
3. When installing the shower fittings in a cubicle, position with the spray pointing across rather than toward the opening of the cubicle.
4. When installing the shower fittings over a bath, position with the spray pointing down the centre line of the bath.
5. Avoid layouts where the shower hose will be sharply kinked. This may reduce the life of the hose.
6. **Do not** fit any form of flow control in the shower outlet.
7. **Do not** use excessive force when making connections.
8. **Do not** install the fittings in a position where it could become frozen.
9. The minimum pressure required for a satisfactory spray pattern to form, at the handset or spray head, is 0.06 bar. For a gravity fed shower installation the minimum head of water required, to accommodate the pressure loss in the pipes and shower control of a typical installation, is 1.0 metre.

For a pump installation the minimum acceptable vertical distance between the base of the cold water storage cistern and the shower head to operate the pump's flow switches, is typically 0.6 m (600 mm).

High and Low Capacity Nozzle Rings

1. All shower fittings are supplied with low capacity nozzle rings fitted as standard to the handset or shower head. High capacity nozzle rings, with larger spray holes, are also included in the fittings pack.
The low capacity nozzle rings will be suitable for most shower installations. However for high pressure installations the spray force may be too powerful for comfortable showering. In such situations it is recommended the high capacity nozzle rings are fitted. Refer to **Maintenance: 2. Spray plate assembly - removal and installation** for removal and fitting instructions.
2. For gas water heaters which require a higher flow rate to operate correctly, it is recommended the high capacity nozzle rings are fitted.

Installation

Mira Logic ev - Exposed Variable Shower Fittings

Note! Special consideration should be given to the fixing arrangements when installing on to dry lined, stud partition, shower cubicle or laminated panel wall structures. Installers may wish to obtain alternative proprietary cavity fixings, or choose other options, however, these methods of fixing are beyond the scope of this guide.

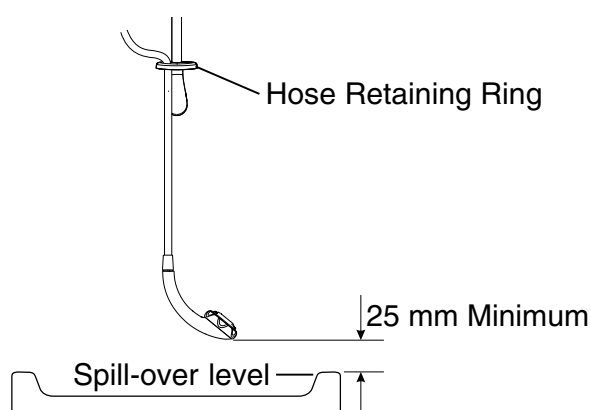
Important! If the Logic slide bar replaces an existing Mira slide bar follow the instructions "**Slide Bar and Clamp Bracket - Replacing an Existing Mira Slide Bar Installation**" on Page 12, otherwise follow the instructions "**Slide Bar and Clamp Bracket - New Installation**" below.

Slide Bar and Clamp Bracket - New Installation

Read the section "**Installation Requirements**" first (Page 9).

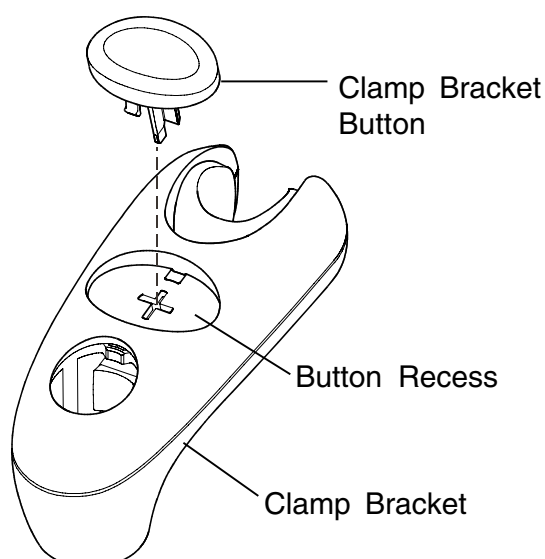
The slide bar should be positioned to one side of the shower control at a convenient height for all the family. It should be positioned so the handset discharges down the centre line of the bath, or across the opening of the shower cubicle. The handset should be directed away from the shower control.

1. Decide on a suitable location for the slide bar avoiding buried cables and pipes. The position of the shower control and the shower fittings must provide a minimum gap of 25 mm between the spill-over level and the handset. This is to prevent backsiphonage. Alternatively the Mira **outlet** double check valve (DCV-H) can be fitted. This is available as an accessory.



Note! To avoid damage during transit, the clamp bracket button and clamp bracket have been supplied separately.

2. Remove the warning label in the clamp bracket button recess and fit the clamp bracket button to the clamp bracket as shown. The button will fit only one way.



3. With the clamp bracket button **FULLY** depressed carefully ease the slide bar through the hole in the clamp bracket. Take care not to dislodge the constant friction mechanism or the friction pad. Release the clamp bracket button.

4. Slide the hose retaining ring onto the slide bar below the clamp bracket.

5. Ensure the slots in the slide bar are aligned with the lugs in the support and fit the two slide bar supports to the ends of the slide bar. Ensure each support is pushed firmly home.

6. Using the assembled slide bar and supports as a template mark the position of each of the four fixing holes at a point in the middle of each vertical slot.

Warning! Ensure there are no buried cables or pipes in the wall before drilling.

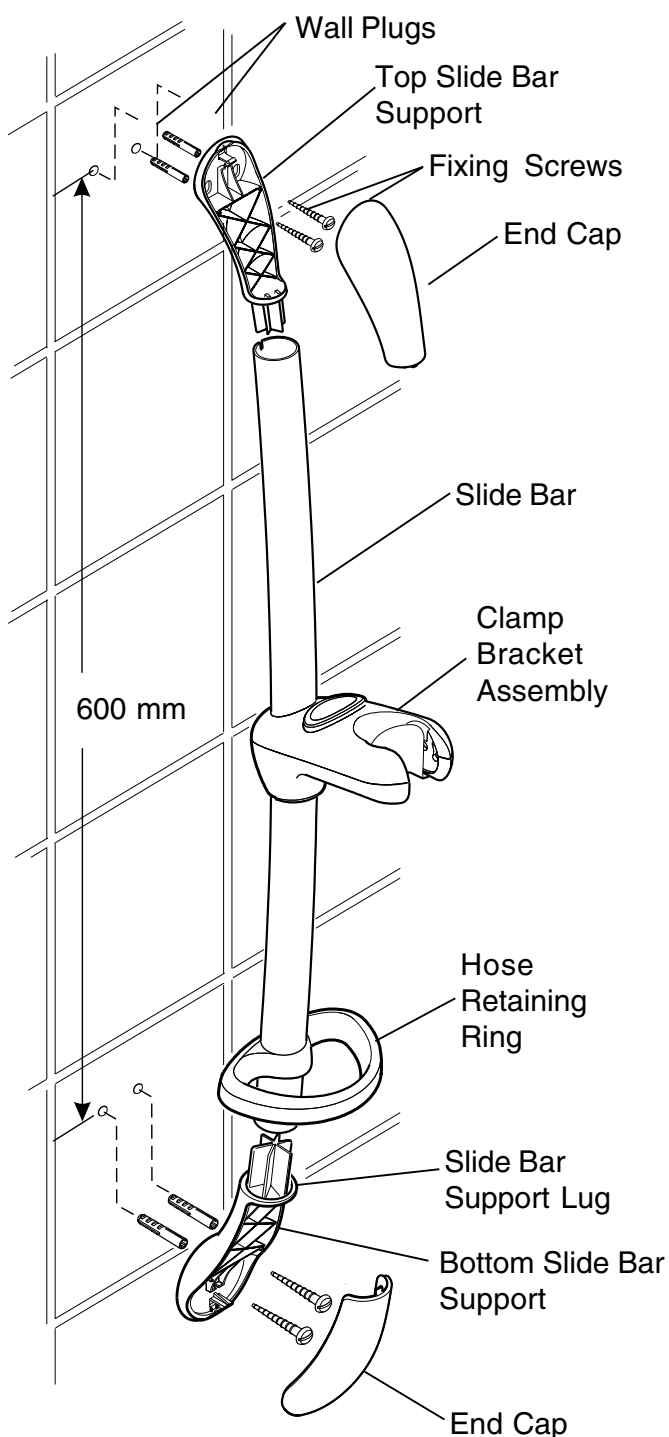
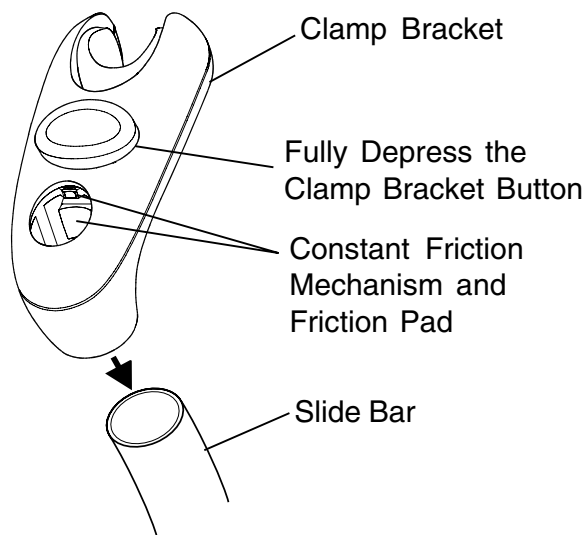
7. Drill the 8 mm holes for the four fixing screws and insert the wall plugs supplied. (Alternatively use proprietary cavity fixings for dry lined, stud partition, shower cubicle or laminated panel walls).

8. Secure the bottom slide bar support to the wall using the screws provided. Ensure the screws are fully tightened.

9. Loosely screw the top slide bar support to the wall. Press firmly down on the top slide bar support and, while continuing to apply force, fully tighten the screws.

10. Fit the end caps to the slide bar supports.

11. Check the slide bar can not be rotated or vertically moved. If there is movement remove the slide bar assembly from the wall. Check the slide bar support lugs are properly



engaged with the slots in the slide bar and the supports are pushed fully on to the slide bar ends. Refit the slide bar assembly by repeating instructions 8. to 10.

12. Follow the instructions in "**Handset Installation**" and "**Soap Dish Installation**" (Page 14) to complete the fittings installation.

Slide Bar and Clamp Bracket - Replacing an Existing Mira Slide Bar Installation

Read the section "**Installation Requirements**" first (Page 9).

The slide bar should be positioned to one side of the shower control at a convenient height for all the family. It should be positioned so the handset discharges down the centre line of the bath, or across the opening of the shower cubicle. The handset should be directed away from the shower control.

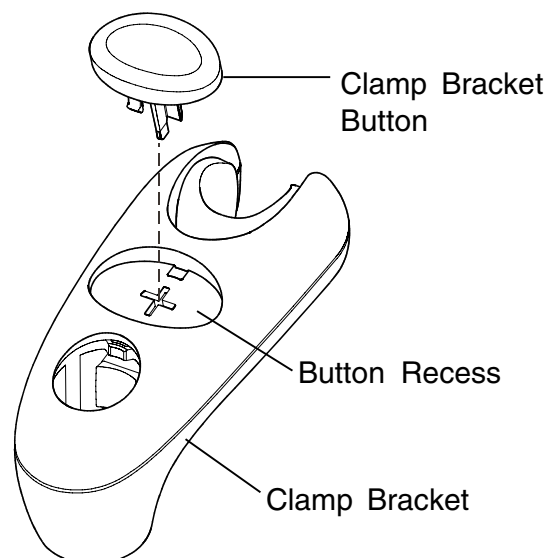
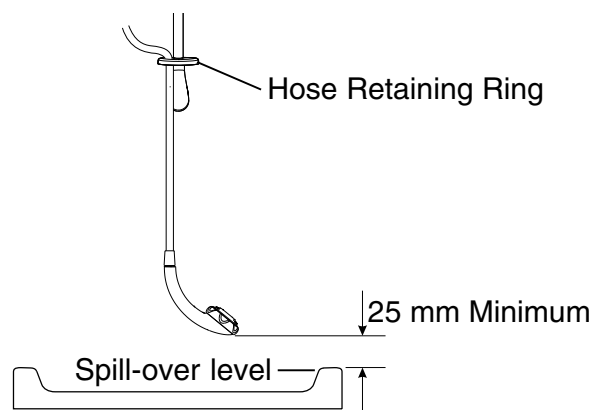
1. The Logic slide bar can be used to replace an existing Mira slide bar installation. However two extra fixings holes will have to be drilled to ensure the Logic slide bar is securely fitted to the wall.

The position of the shower control and the shower fittings must provide a minimum gap of 25 mm between the spill-over level and the handset. This is to prevent backsiphonage.

If this is not possible the new slide bar will have to be repositioned. Follow the instructions "**Slide Bar and Clamp Bracket - New Installation**" (Page 10) to fit slide bar in an alternative position. Alternatively the Mira **outlet** double check valve (DCV-H) can be fitted. This is available as an accessory.

Note! To avoid damage during transit, the clamp bracket button and clamp bracket have been supplied separately.

2. Remove the warning label in the clamp bracket button recess and fit the clamp bracket button to the clamp bracket as shown.



3. With the clamp bracket button **FULLY** depressed carefully ease the slide bar through the hole in the clamp bracket. Take care not to dislodge the constant friction mechanism or the friction pad. Release the clamp bracket button.

4. Slide the hose retaining ring onto the slide bar below the clamp bracket.

5. Ensure the slots in the slide bar are aligned with the lugs in the support and fit the two slide bar supports to the ends of the slide bar. Ensure each support is pushed firmly home.

6. Select one of the opposing pair of screw slots on the slide bar supports (i.e. one slot on the top support and one on the bottom support) and fix the slide bar assembly securely to the wall.

7. Mark the position of the two remaining screw fixing holes.

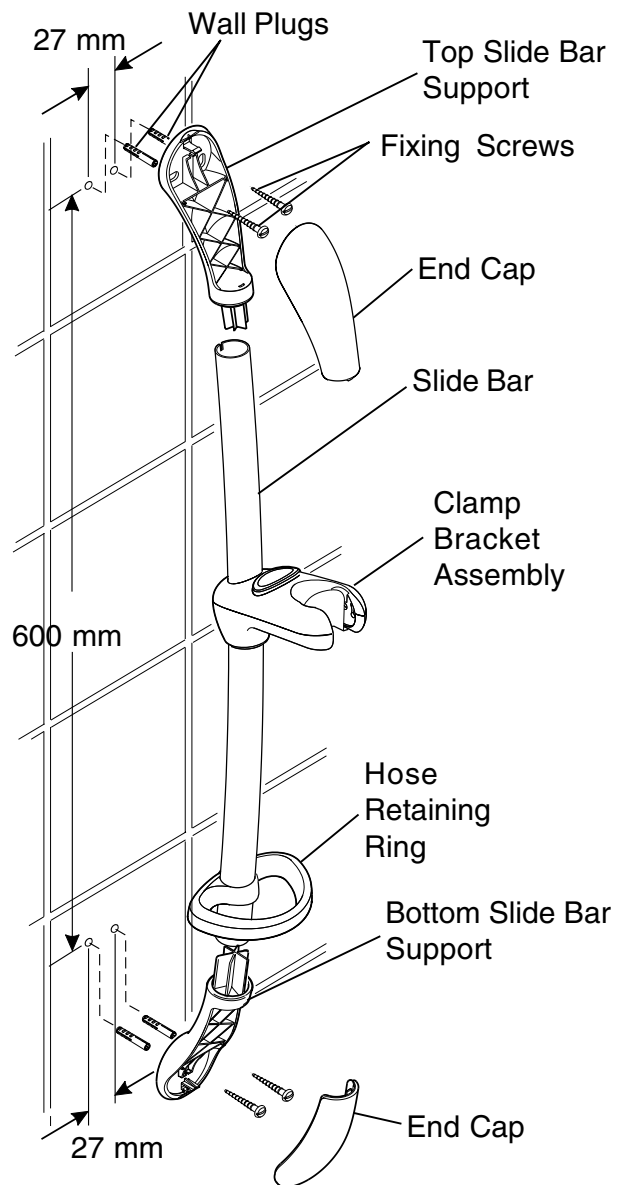
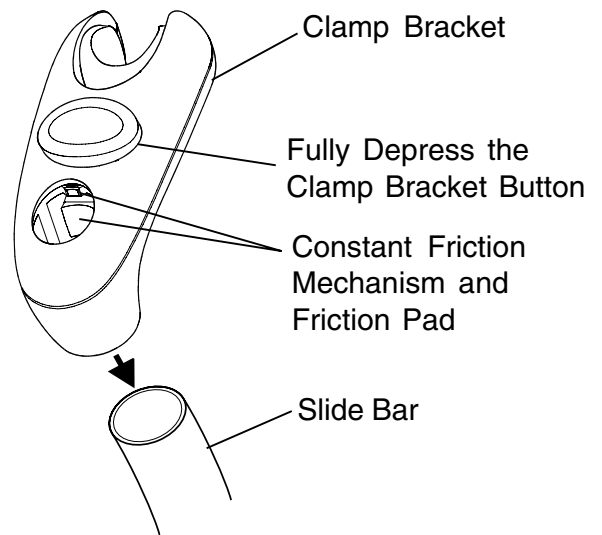
Warning! Ensure there are no buried cables or pipes in the wall before drilling.

8. Remove the slide bar assembly and drill the 8 mm holes for the two extra fixing screws and insert the wall plugs supplied. (Alternatively use proprietary cavity fixings for dry lined, stud partition, shower cubicle or laminated panel walls).

9. Secure the bottom slide bar support to the wall using the screws provided. Ensure the screws are fully tightened.

10. Loosely screw the top slide bar support to the wall. Press firmly down on the top slide bar support and, while continuing to apply force, fully tighten the screws.

11. Fit the end caps to the slide bar supports.



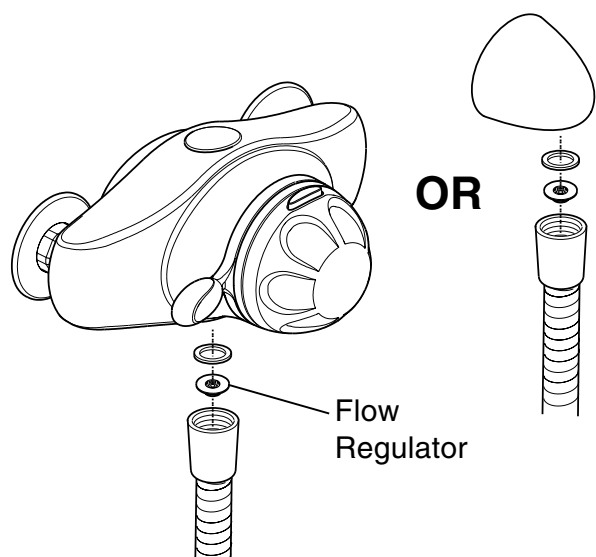
12. Check the slide bar can not be rotated or vertically moved. If there is movement remove the slide bar assembly from the wall. Check the slide bar support lugs are properly engaged with the slots in the slide bar and the supports are pushed fully on to the slide bar ends. Refit the slide bar assembly by repeating instructions 9. to 11.
13. Follow the instructions in "**Handset Installation**" and "**Soap Dish Installation**" below to complete the fittings installation.

Handset Installation

Caution! Do not overtighten the hose.

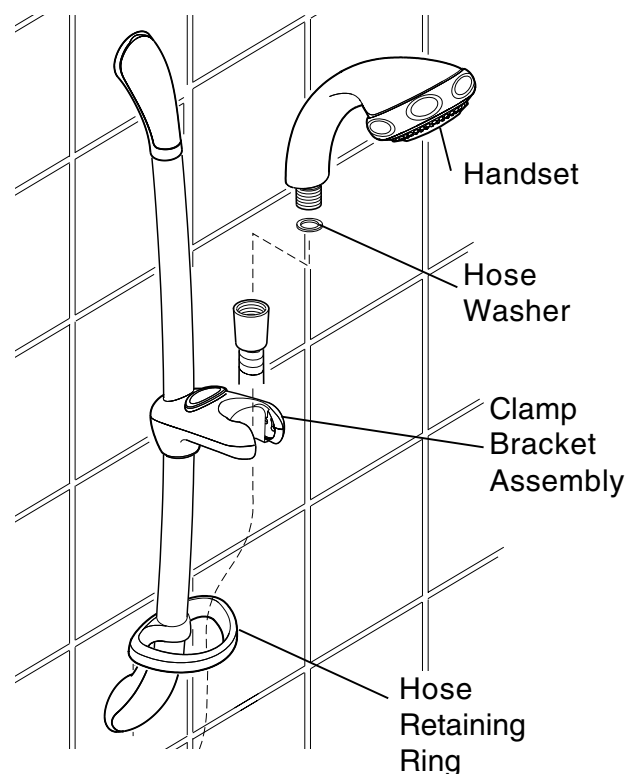
1. Screw the hose onto the outlet of the shower control (Make sure the hose washer is fitted).

Note! If necessary a 9 litre/minute flow regulator can be fitted under the hose washer. The flow regulator is available as an accessory.



2. Pass the flexible hose through the hose retaining ring and screw the remaining end of the hose onto the handset (Make sure the hose washer is fitted).

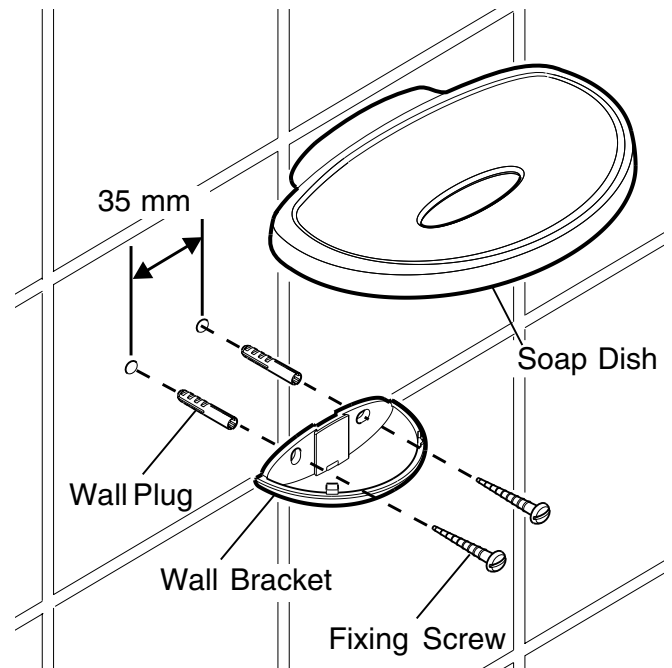
3. Place the handset in the clamp bracket assembly.



Soap Dish Installation

Note! For dry lined, stud partition, shower cubicle or laminated panel walls the installer may wish to obtain alternative proprietary cavity fixings. Use of these alternative fixings is beyond the scope of this guide.

1. Decide on a suitable position for the soap dish, avoiding any buried cables and pipes.
2. Place the wall bracket on the wall and mark the position of the fixing holes.
Warning! Ensure there are no buried pipes or cables in the wall before drilling.
3. Drill the two 8.0 mm fixing holes for the soap dish at 35 mm centres, and insert the wall plugs supplied.
4. Screw the wall bracket to the wall.
5. Clip the soap dish onto the wall bracket.
6. This completes the installation of the Mira Logic ev shower fittings.



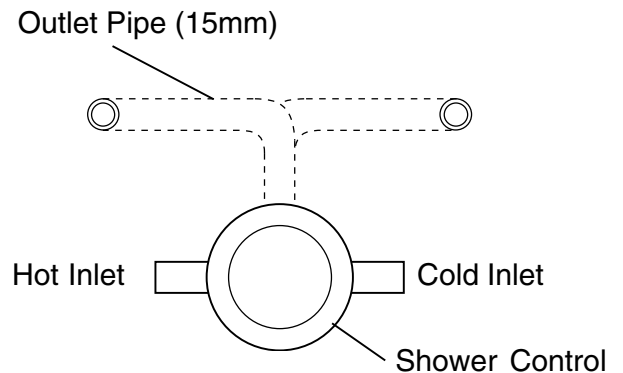
Mira Logic biv - Built-in Variable Shower Fittings

Read the section “**Installation Requirements**” first (Page 9).

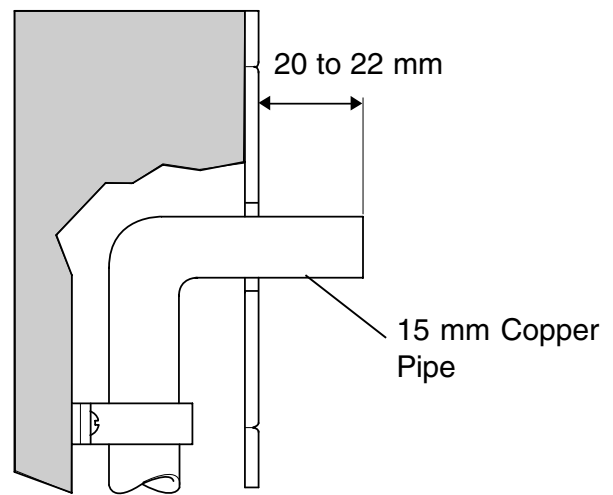
Note! Special consideration should be given to the fixing arrangements when installing on to dry lined, stud partition, shower cubicle or laminated panel wall structures. Installers may wish to obtain alternative proprietary cavity fixings, or choose other options, however, these methods of fixing are beyond the scope of this guide.

The right angled connector assembly (RAC) should be positioned above and offset from the top outlet of the shower control. This will prevent the flexible hose from obstructing the temperature and flow control knobs of the shower control. The pipework between the shower control and the backplate nut is not supplied as part of the shower fitting.

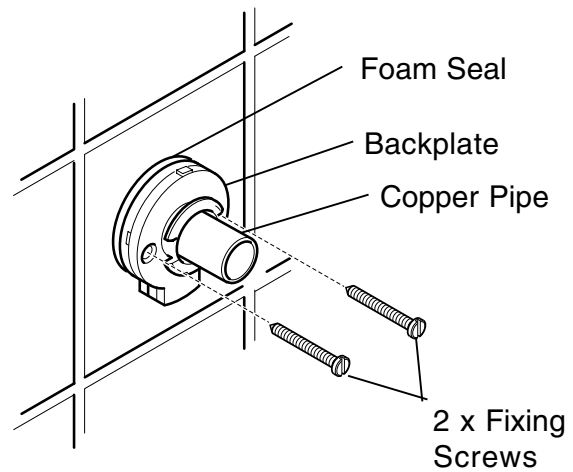
1. The end of the 15 mm pipework from the outlet of the shower control must protrude through the **finished** wall surface by **at least 20mm**.



2. The copper pipe must protrude through the wall between 20 - 22mm from the finished surface of the wall. If the pipe protrudes further than 22mm it will prevent the backplate nut from engaging with the backplate. If necessary cut the pipe to the correct length and remove any burrs.

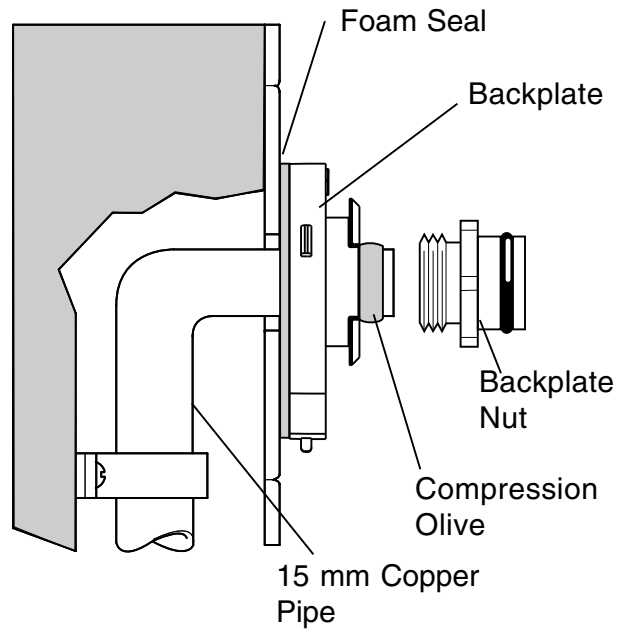


3. Place the backplate over the copper pipe and mark the positions of the two fixing holes. Drill the two 6mm fixing holes for the backplate and fit the two wall plugs supplied. (Alternatively use proprietary cavity fixings for dry lined, stud partition, shower cubicle or laminated panel walls).

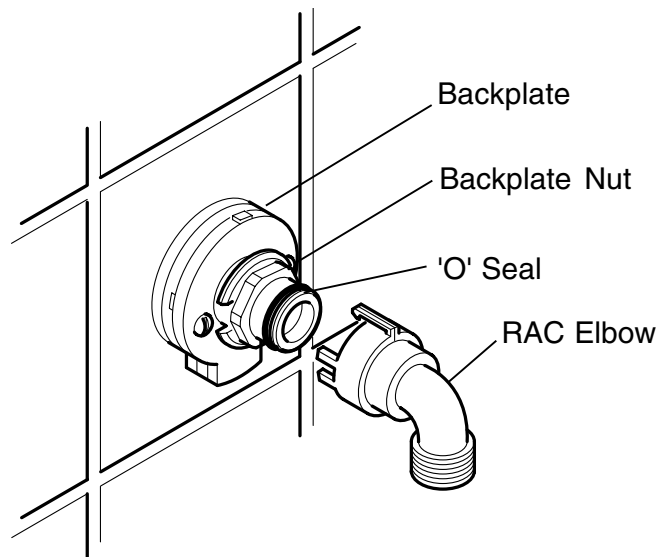


Important! Ensure the recessed pipework is vertical and the arrow on the backplate is in an upright position.

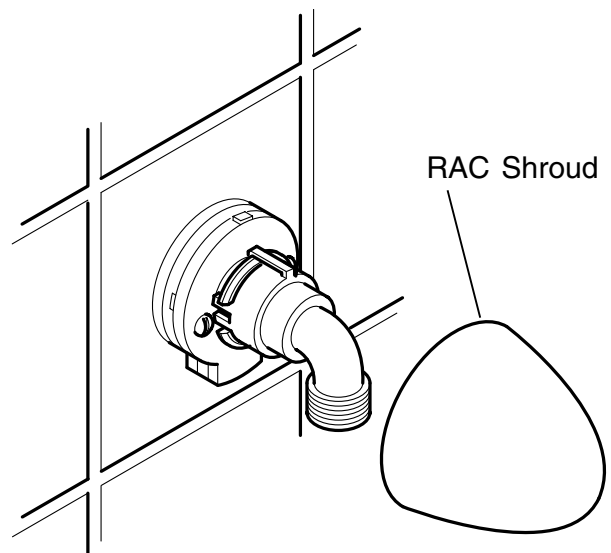
4. Make sure that the foam seal abuts the finished wall surface, place the backplate against the foam seal and using the two screws supplied fix the backplate to the wall.
5. Fit the compression olive and the backplate nut over the copper pipe and tighten the nut into position. Flats are provided on the backplate nut to take a 24mm A/F spanner.



6. Ensure the 'O' seal is fitted to the backplate nut. Ensure the clips on the elbow are fully engaged with the backplate.



7. Locate the RAC shroud over the RAC elbow. Carefully push the shroud until it engages with the lugs on the backplate.



8. To complete the installation fit the slide bar, handset and soap dish. Follow the installation instructions in "**Mira Logic ev - Exposed Variable Shower Fittings**" (Page 10).

Mira Logic bir - Built-in Rigid Shower Fittings

Solid and dry-lined wall Installation

Read the section “**Installation Requirements**” first (Page 9).

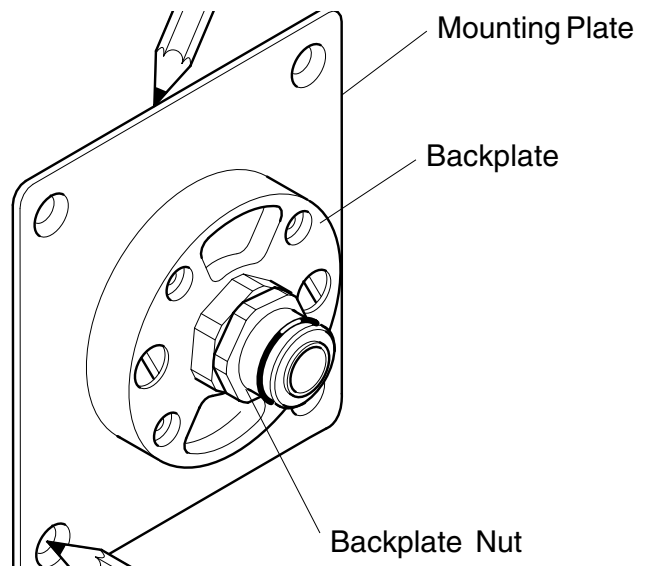
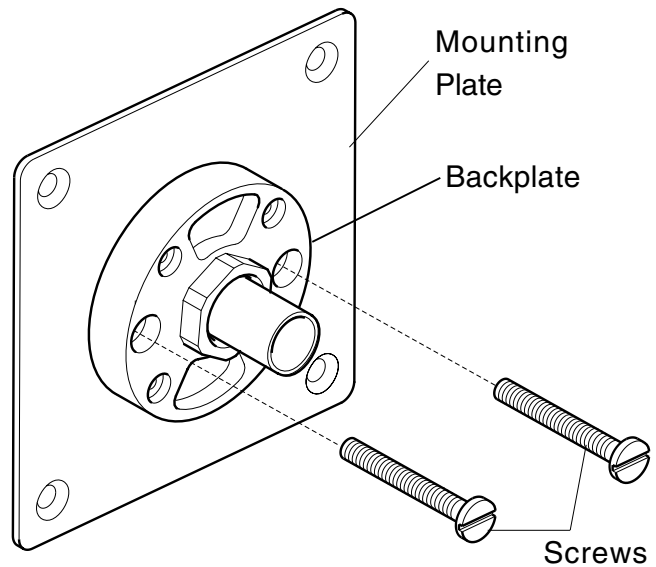
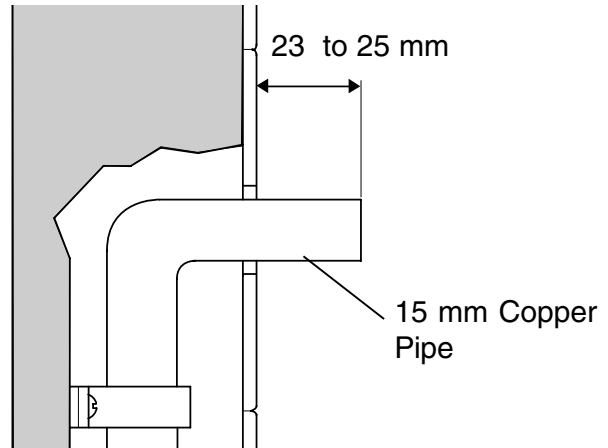
The bir spray head should be positioned at a convenient height for all the family. It should be positioned so that it discharges down the centre line of the bath, or across the opening of the shower cubicle and it should be directed away from the shower control.

The pipework between the shower control and the backplate nut is not supplied as part of the shower fitting.

1. Fit recessed 15 mm copper pipe from the shower control and ensure the pipe will protrude from the **finished** wall surface by **at least 23mm**.
2. Loosely screw the backplate to the mounting plate with the two screws provided.
3. Place the mounting plate and backplate over the copper pipe.

Important! Ensure the recessed pipework is vertical.

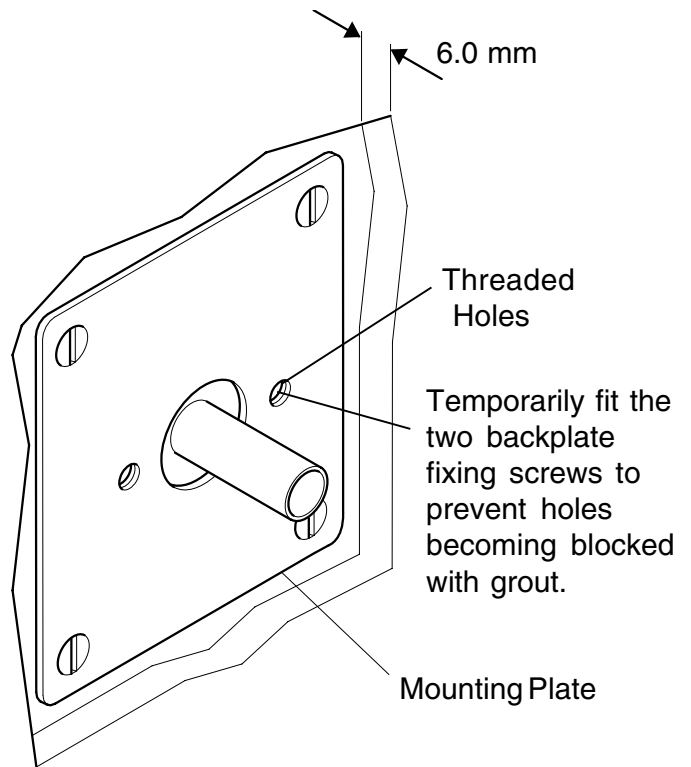
4. Fit and tighten the backplate nut sufficiently to hold the assembly against the wall.
5. Mark the position of the mounting plate and its fixing holes on the wall surface.
6. Remove the backplate nut, compression olive and the backplate/mounting plate assembly. Remove the screws and the wallplate from the mounting plate.



7. Drill the four mounting plate fixing holes. If necessary, make a recess approximately 6 mm deep to accept the mounting plate. Fit the four wall plugs supplied to the fixing holes.

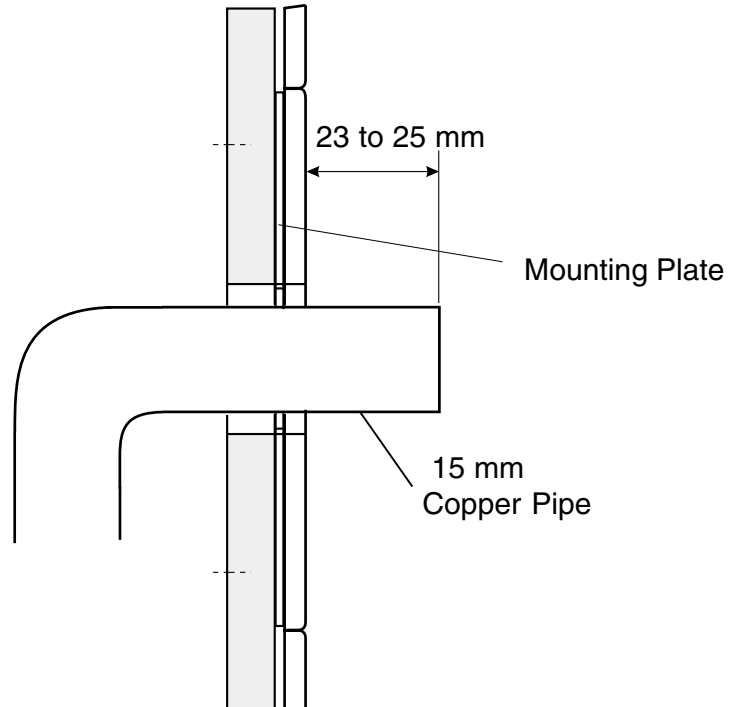
8. Fix the mounting plate to the wall with four screws (not supplied). The two threaded holes must be horizontal.

9. Temporarily fit the two backplate fixing screws into the mounting plate. This will prevent the fixing holes from becoming blocked with plaster or grout.

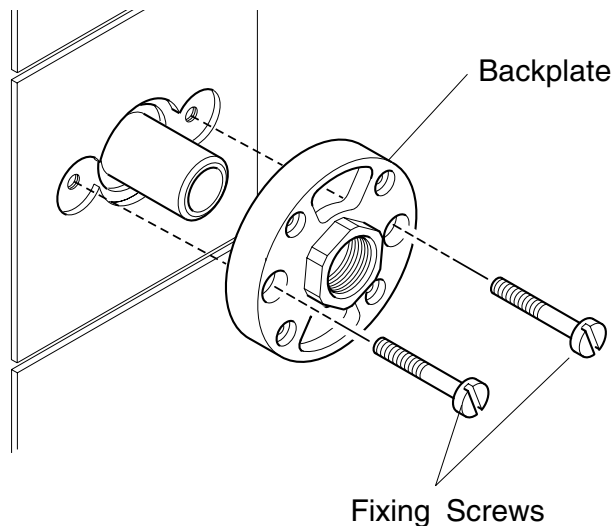


10. Finish the surface of the wall as required.

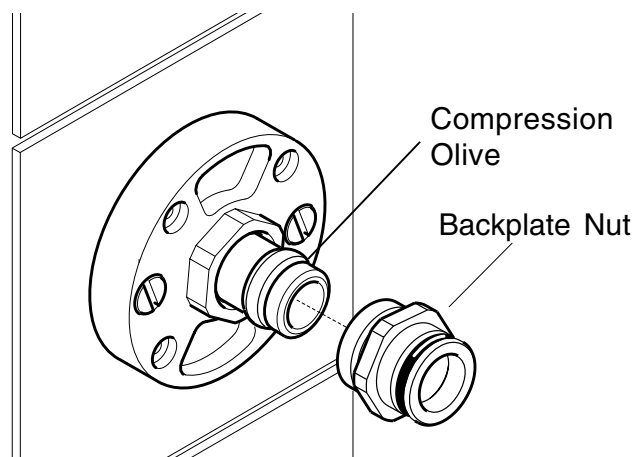
11. The copper pipe must protrude through the wall between 23 - 25mm from the finished surface of the wall. If the pipe protrudes further than 25mm it will prevent the backplate nut from engaging with the backplate. If necessary cut the pipe to the correct length and remove any burrs.



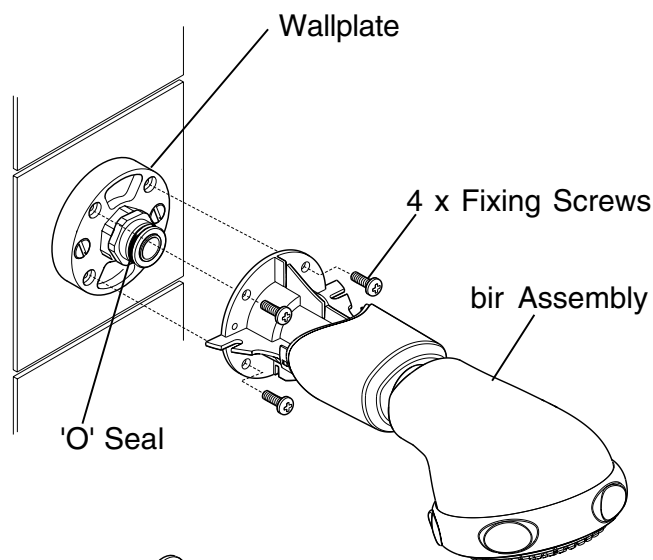
12. Fix the backplate to the wall using the two fixing screws.



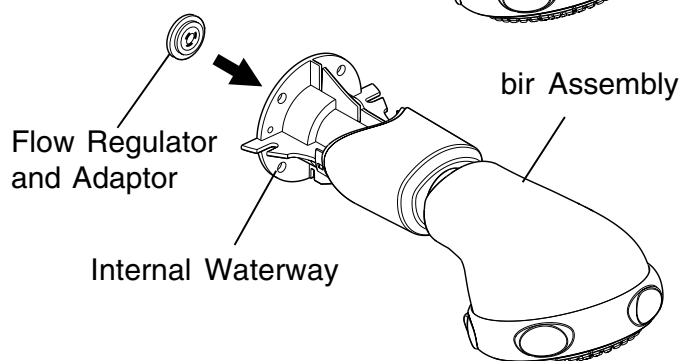
13. Fit the compression olive over the copper pipe and tighten the backplate nut into position. Flats are provided on the wallplate and backplate nut for a 24 mm A/F spanner.



14. Ensure the 'O' seal is fitted on the backplate nut. Push the bir assembly over the backplate nut onto the wallplate.

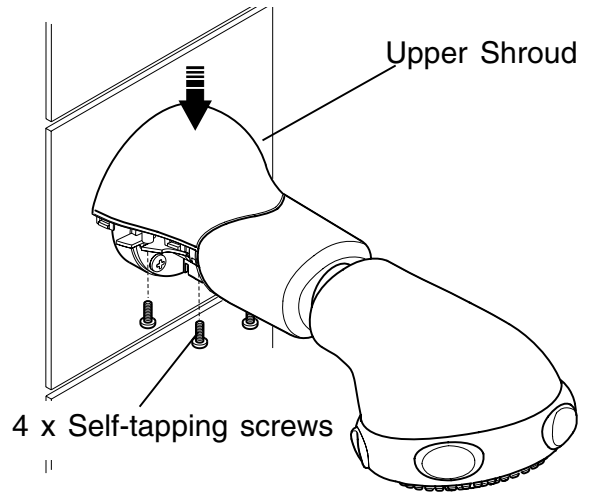


15. Fix the bir assembly to the wall plate using the four screws provided.

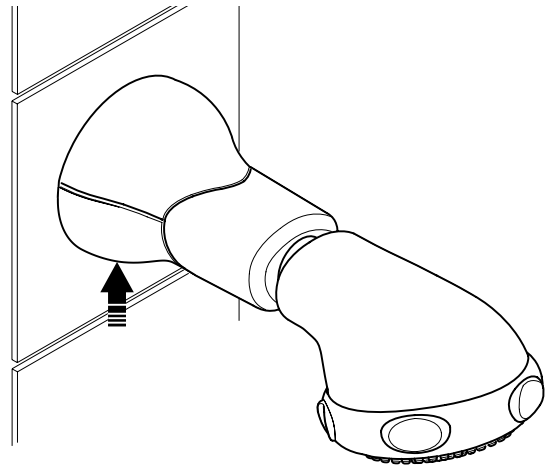


Note! If necessary a 9 litre/minute flow regulator can be fitted with an adaptor in the internal waterway of the bir assembly. The flow regulator and adaptor are available as accessories.

16. Fix the upper shroud to the bir assembly using the four self-tapping screws provided.



17. Snap the lower shroud into position.



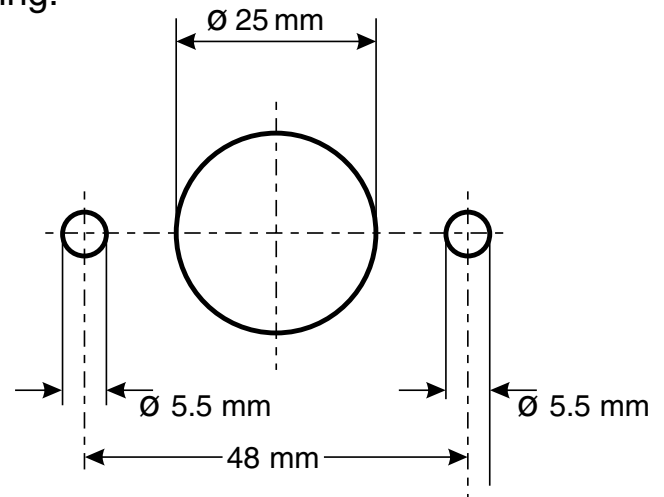
18. To fit the soap dish and complete the installation of the bir fittings follow the "**Soap Dish Installation**" instructions on Page 15.

Shower cubicle, laminated panel or stud partition wall Installation

Read the section “**Installation Requirements**” first.

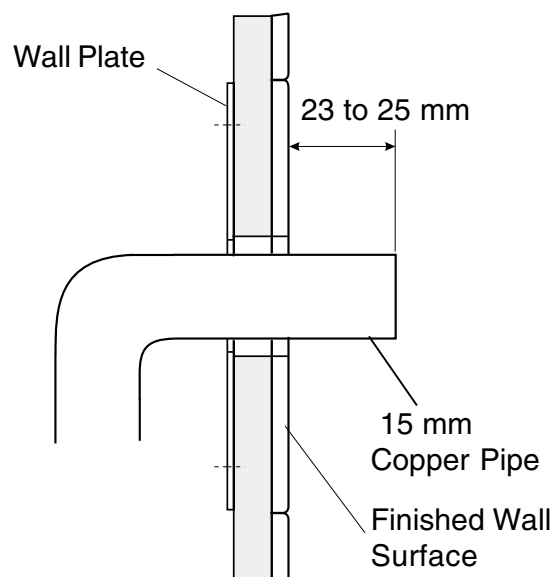
The bir spray head should be positioned at a convenient height for all the family. It should be positioned so that it discharges down the centre line of the bath, or across the opening of the shower cubicle and it should be directed away from the shower control. The pipework between the shower control and the backplate nut of the shower head is not supplied as part of the shower fitting.

1. Cut a 25 mm hole in the panel and two 5.5 mm holes at 48 mm centres.

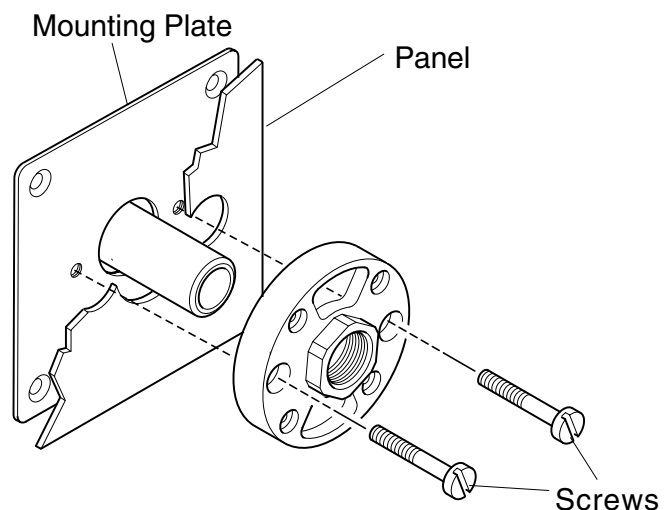


2. Feed the copper pipe through the mounting plate and panel. Ensure the pipe protrudes **at least 23 mm** from wall.

3. The copper pipe must protrude through the wall between 23 - 25mm from the finished surface of the wall. If the pipe protrudes further than 25mm it will prevent the backplate nut from engaging with the backplate. If necessary cut the pipe to the correct length and remove any burrs.



4. Hold the mounting plate in position behind the panel, place the backplate in front of the panel and insert the two backplate screws through the holes in the panel and fit them into the mounting plate and tighten.



5. To complete the installation of the bir fittings follow instructions 13. to 18. of "**Solid and Dry-lined Wall Installation**" on Page 18.

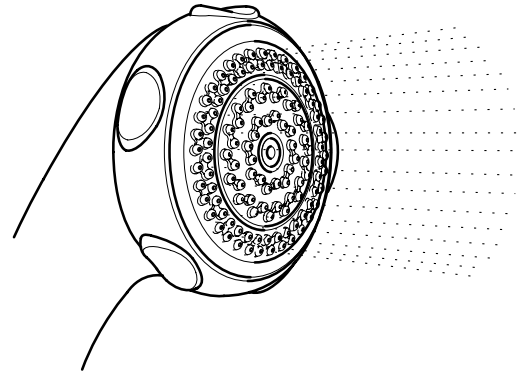
Operation

Changing Spray Settings (ev,biv and bir fittings)

The handset has four different spray settings (start, soothe and force and eco).

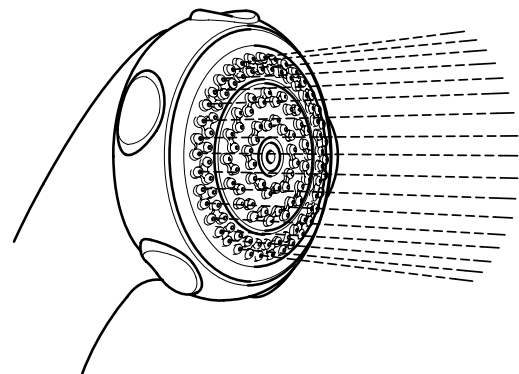
1. Eco

To access the eco setting, turn the spray plate fully clockwise. Water will flow from the outer set of holes and the flow rate will be reduced.



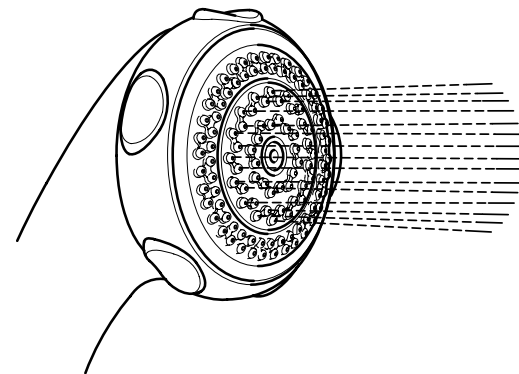
2. Start

To access the start setting turn the spray plate anticlockwise until it 'clicks' (one click from the eco setting). Water will flow from the outer set of holes.



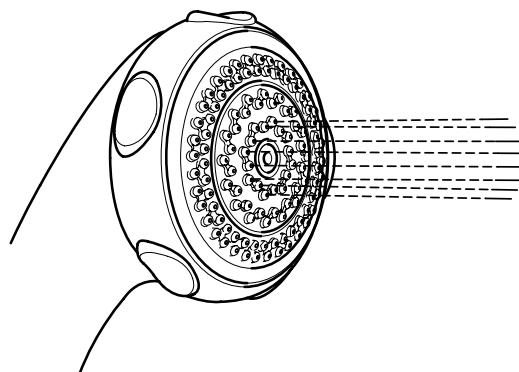
3. Soothe

To access the soothe setting turn the spray plate anticlockwise until it 'clicks' (two clicks from the eco setting). Water will flow from the large diameter holes.



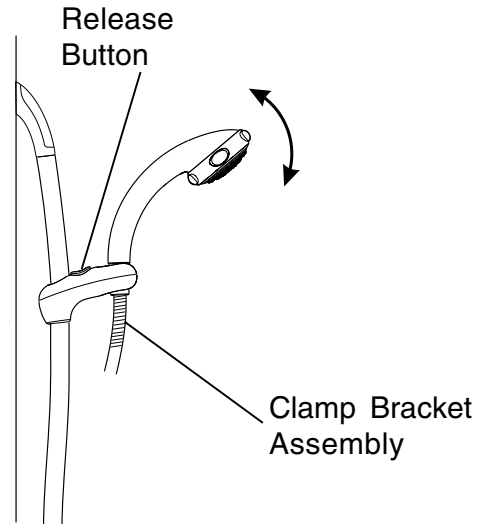
4. Force

To access the force setting turn the spray plate anticlockwise until it 'clicks' (three clicks from the eco setting). Water will flow from the inner set of holes.

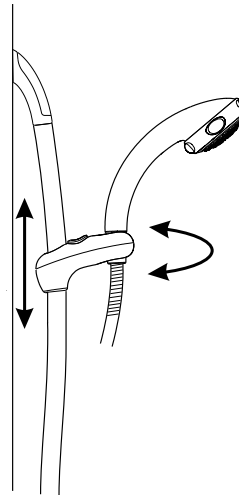


Clamp Bracket Adjustment (ev and biv fittings only)

1. Depress the release button and slide the clamp bracket assembly to the required position.

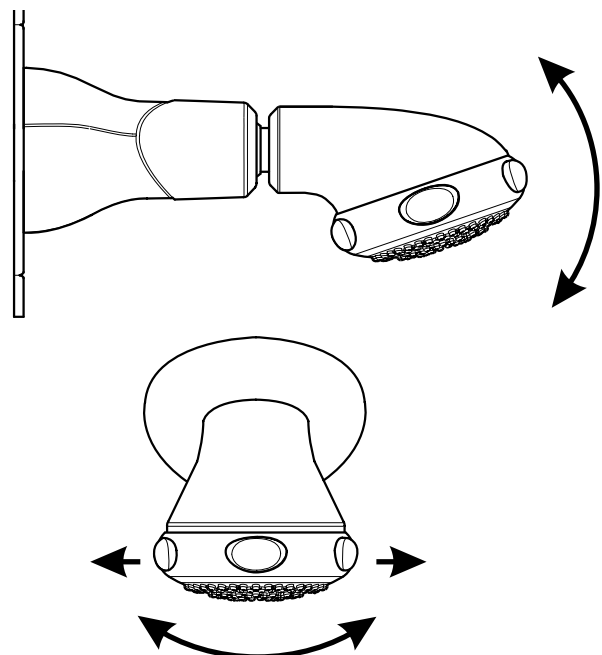


2. Move the handset to the required angle. A friction mechanism within the clamp bracket assembly will hold the handset at the desired angle.



Spray Head Adjustment (bir fittings only)

1. Move the spray head to the required position. The spray head is adjustable in both the horizontal and vertical directions, and can also be rotated.



Fault Diagnosis

The trouble shooting information tabled below gives details on what you can do as a user, should you encounter difficulties with the shower fittings whilst operating the shower. Before replacing any parts ensure that the underlying cause of the malfunction has been resolved.

Malfunction	Cause	Remedy
No flow or low flow rate from shower fittings.	<p>Spray plate blocked.</p> <p>Hose blocked or twisted.</p> <p>Partially closed stop or servicing valve in supply pipe work to the shower control.</p> <p>Head of water below minimum required.</p>	<p>Refer to Maintenance: "1. Cleaning".</p> <p>Clear blockage or release twist in hose or renew hose.</p> <p>Open valve.</p> <p>Raise cistern or fit Mira pump.</p>
Drip from spray plate assembly in handset or spray head.	<p>A small amount of water may be retained in the shower fitting after the shower control has been turned off. This may drain over a few minutes.</p> <p>Defective seal(s) in the shower control.</p>	<p>This is quite normal.</p> <p>Changing the angle of the shower fitting may vary the draining time.</p> <p>Refer to shower control Installation, Operation and Maintenance Guide.</p>
Shower temperature changes when spray action is adjusted.	<p>Adjusting the spray action changes the flow of water. This may affect some shower controls and plumbing installations.</p>	<p>To minimise the effect make sure that the spray plate is clean. Refer to Maintenance: "1. Cleaning". If the malfunction persists refer to the shower control Installation, Operation and Maintenance Guide.</p>
Spray force too powerful to shower under comfortably.	<p>High pressure shower installation.</p>	<p>Fit high capacity nozzle rings.</p> <p>Fit optional 9 l/min flow regulator.</p>

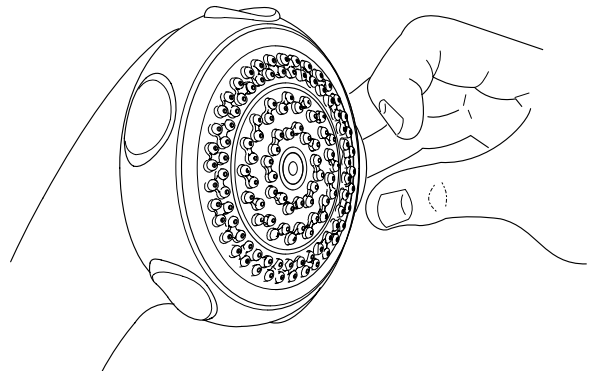
Maintenance

Cleaning

Many household cleaners contain abrasives and chemical substances, and should not be used for cleaning plated or plastic fittings. These finishes should be cleaned with a mild washing up detergent or soap solution, and then wiped dry using a soft cloth.

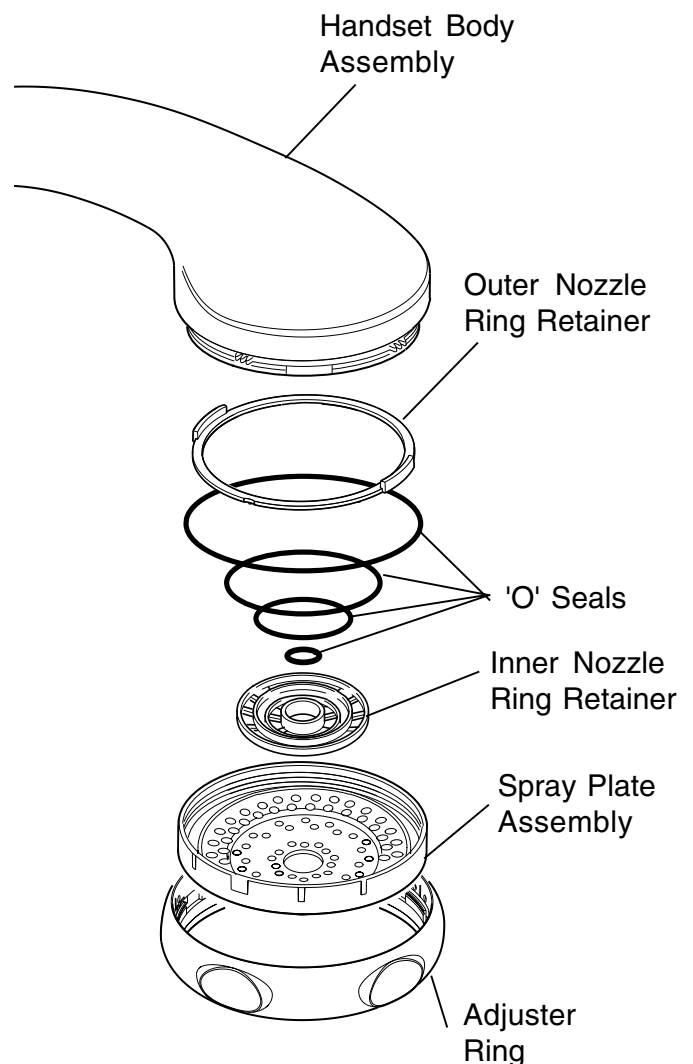
Spray Plate Assembly - External

1. Use your thumb or a soft cloth to wipe any limescale from the soft rubber nozzles and the front face of the spray plate assembly.



Spray Plate Assembly - Internal

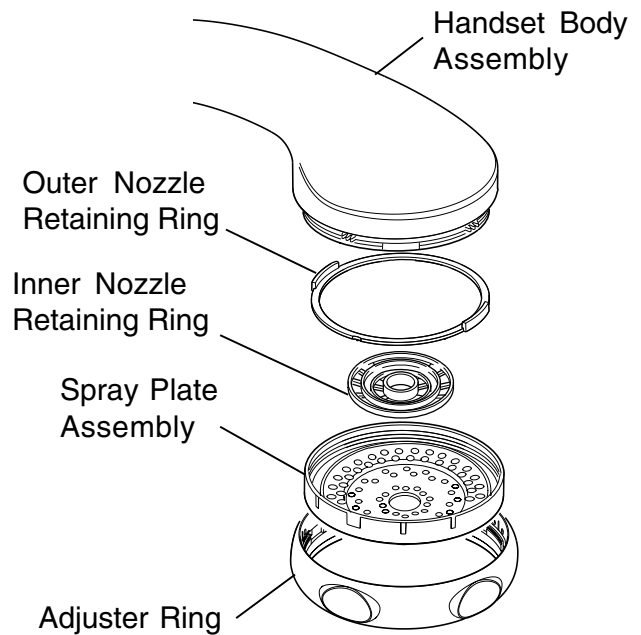
1. Remove the spray plate assembly. Refer to **Maintenance: "Spray Plate - Removal and Installation"**.
2. Remove the inner and outer nozzle ring retainers.
3. Clean all the components with a stiff brush. If necessary use a plastic kettle descaler in accordance with the manufacturer's instructions. Flush thoroughly with water before the shower is used.
4. If necessary replace the 'O' seals. Refer to **Spare Parts** on Page 28.
5. Refit the components in reverse order. Make sure the 'O' seals, and the inner/outer nozzle ring retainers are fitted correctly. Refer to **Maintenance: "Spray Plate - Removal and Installation"**.



Spray Plate - Removal and Installation

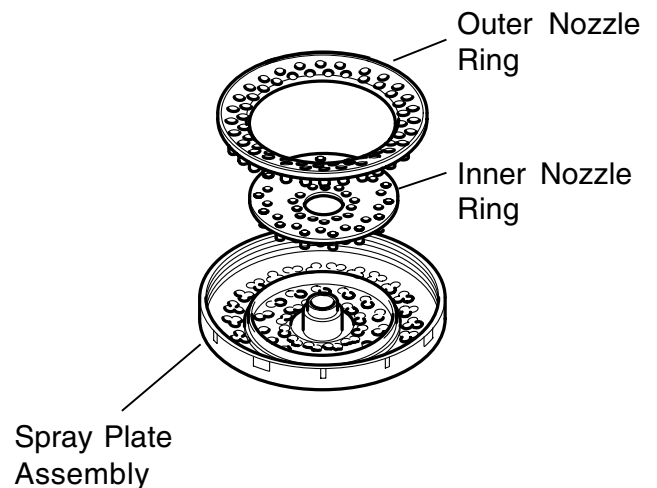
Spray Plate Removal

1. Turn the adjuster ring fully anticlockwise.
2. Unclip and remove the adjuster ring.
3. Unscrew the spray plate assembly in an anticlockwise direction. The 'O' seals will provide some resistance.
4. Remove the inner and outer nozzle retaining rings.



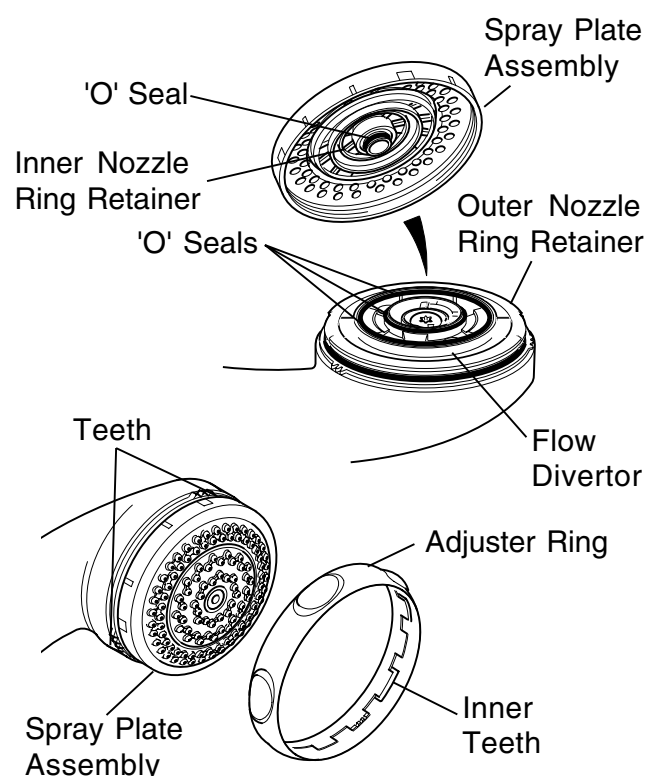
Nozzle Ring Replacement

1. Carry out instructions 1. to 4. of "**Spray Plate Removal**".
2. Remove both the inner and outer low capacity nozzle rings and replace with the high capacity versions supplied.
3. Carry out instructions 1. to 6. of "**Spray Plate Installation**".



Spray Plate Installation

1. Make sure that the four 'O' seals are all correctly fitted.
2. Fit the inner nozzle ring retainer on to the spray plate assembly.
3. Fit the outer nozzle ring retainer on to the flow divertor.
4. Turn the flow divertor fully clockwise.
5. Carefully screw the spray plate assembly on to the flow divertor.
6. Align the inner teeth on the adjuster ring with the teeth on the handset flow divertor. Clip the adjuster ring into position.

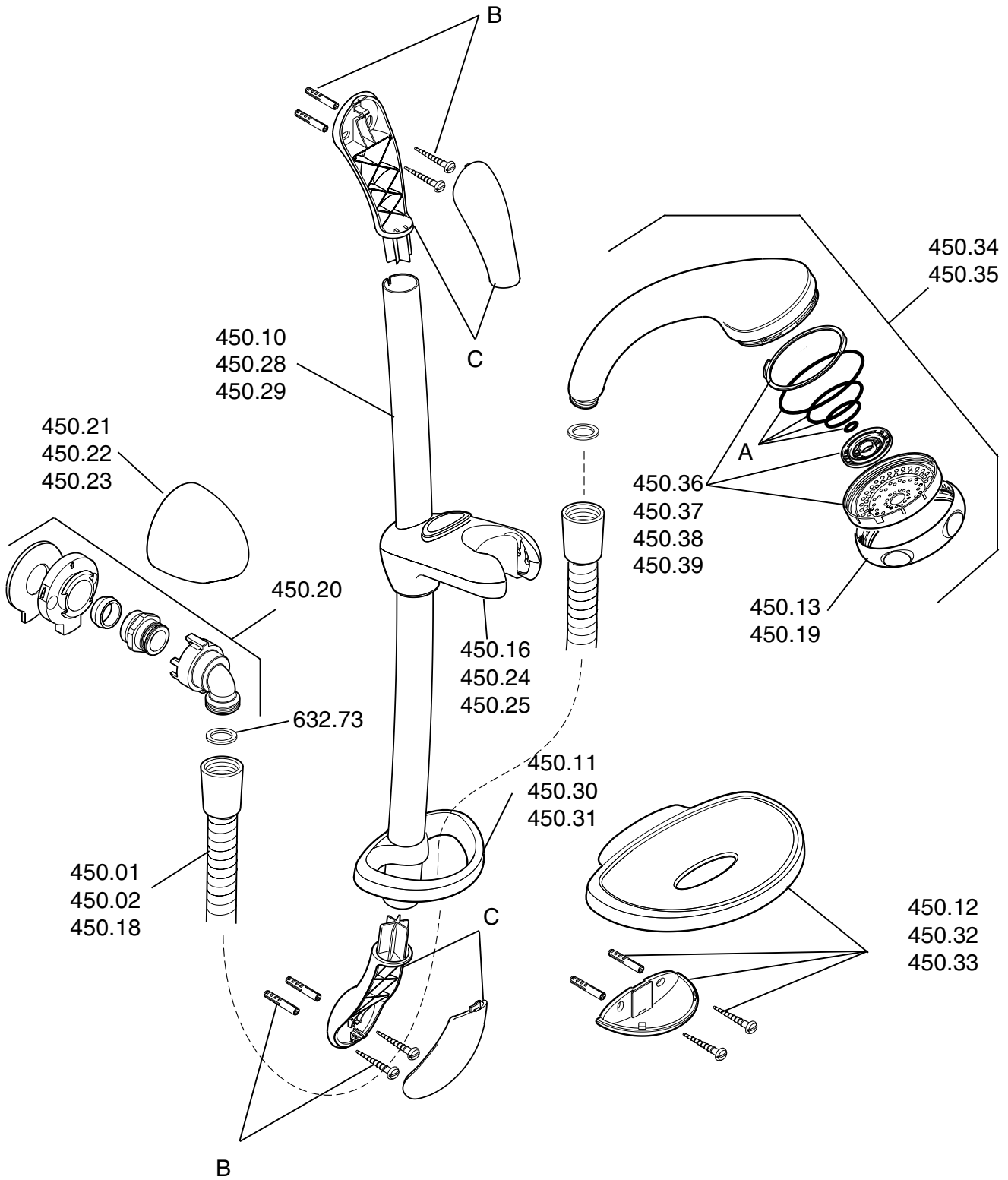


Spare Parts

1. ev and biv Spares List

450.01	Hose 1.25 m - chrome
450.02	Hose 1.25 m - white
450.08	Service Pack 'O' seals- components identified 'A'
450.10	Slide Bar - white
450.11	Hose Retaining Ring - white
450.12	Soap Dish Pack - white
450.13	Adjuster Ring - white
450.16	Clamp Bracket Assembly - white
450.17	Slide Bar Wall Fixing Pack- components identified 'B'
450.18	Hose 1.25 m - gold
450.19	Adjuster Ring - chrome
450.20	Right Angled Connector Mounting Pack
450.21	Right Angled Connector Shroud - white
450.22	Right Angled Connector Shroud - chrome
450.23	Right Angled Connector Shroud - gold
450.24	Clamp Bracket Assembly - chrome
450.25	Clamp Bracket Assembly - satin chrome
450.26	Slide Bar Support Assembly - white - components identified 'C'
450.27	Slide Bar Support Assembly - chrome - components identified 'C'
450.28	Slide Bar - chrome
450.29	Slide Bar - gold
450.30	Hose Retaining Ring - chrome
450.31	Hose Retaining Ring - satin chrome
450.32	Soap Dish Pack - chrome
450.33	Soap Dish Pack - gold
450.34	Adjustable Handset Assembly - white
450.35	Adjustable Handset Assembly - chrome
450.36	LC Spray Plate Pack - for white & white/gold fittings
450.37	HC Spray Plate Pack - for white & white/gold fittings
450.38	LC Spray Plate Pack - for chrome & satin chrome fittings
450.39	HC Spray Plate Pack - for chrome & satin chrome fittings
632.73	Hose Washer

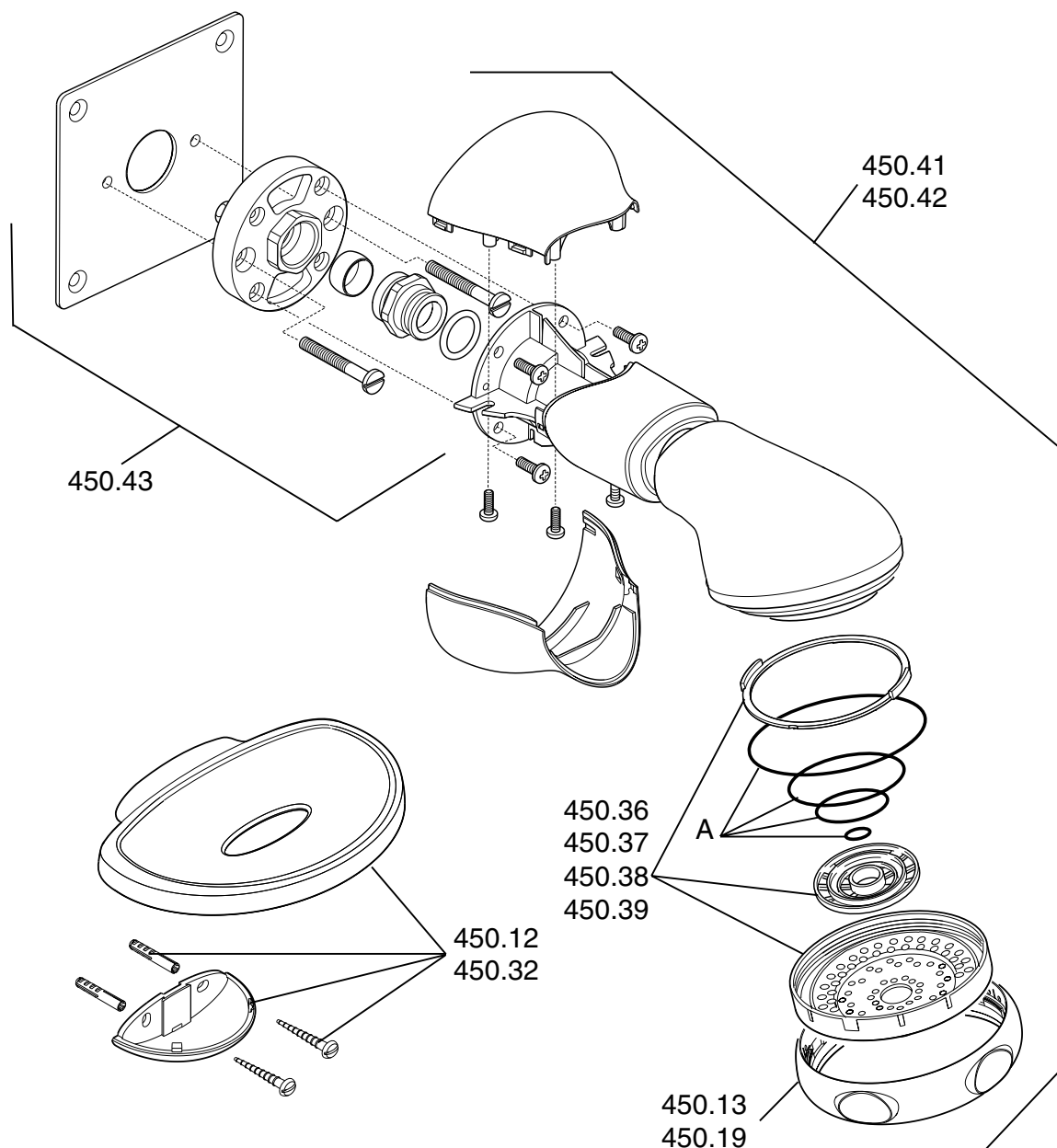
2. ev and biv Spares Diagram



3. bir Spares List

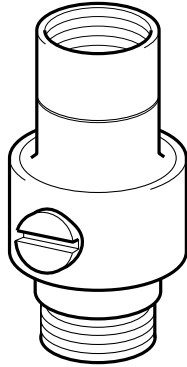
- 450.08 Service Pack 'O' seals- components identified 'A'
- 450.12 Soap Dish Pack - White
- 450.13 Adjuster Ring - white
- 450.19 Adjuster Ring - chrome
- 450.32 Soap Dish Pack - chrome
- 450.36 LC Spray Plate Pack - for white bir fittings
- 450.37 HC Spray Plate Pack - for white bir fittings
- 450.38 LC Spray Plate Pack - for chrome bir fittings
- 450.39 HC Spray Plate Pack - for chrome bir fittings
- 450.41 bir Assembly - white
- 450.42 bir Assembly - chrome
- 450.43 bir Mounting Pack (Consisting of Back Plate Nut, 'O' Seal, Olive, Back Plate, Wallplate, 2 off M5 x 40 Screws and 4 off M4 x 12 Screws)

4. bir Spares Diagram



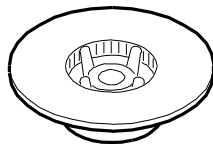
Accessories

DCV-H: An outlet double check valve, designed to prevent the backflow or backsiphonage of potentially contaminated water, through shower controls which are fitted with a flexible hose as part of the outlet shower fitting. The inclusion of the Mira DCV-H will increase the required supply pressure typically by 0.1 bar. Available as an optional accessory from your Mira stockist.



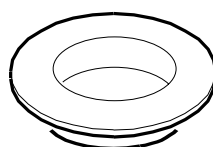
DCV-H Outlet Double Check Valve
(Part no **110.55**)

9 litre/minute Flow Regulator, designed to limit the flow rate for the Mira Logic fittings in high pressure installations. For bir fittings the flow regulator **must** be used in conjunction with the flow regulator adaptor. Available as an optional accessory from your Mira stockist.



9 Litre/minute Flow Regulator
(Part no. **146.84**)

Flow Regulator Adaptor, allows the 9 litre/minute flow regulator to be used with bir fittings. Available as an optional accessory from your Mira stockist.



Flow Regulator Adaptor
(Part no. **1540.192**)

Customer Service

Guarantee of Quality

Mira Showers guarantee products against any defect of materials or workmanship for one year from the date of purchase (2 years for Mira Select and 3 years for Mira Excel ranges).

To validate the guarantee, please return your completed registration card.

Within the guarantee period we will resolve defects, free of charge, by repairing or replacing parts or modules as we may choose.

To be free of charge, service work must only be undertaken by Mira Showers or our approved agents in Northern Ireland and Republic of Ireland.

Service under this guarantee does not affect the expiry date. The guarantee on any exchanged parts or product ends when the normal product guarantee period expires.

Not covered by this guarantee:

Damage or defects arising from incorrect installation, improper use or lack of maintenance, including build-up of limescale.

Damage or defects if the product is taken apart, repaired or modified by any person not authorised by Mira Showers or our approved agents.

This guarantee is in addition to your statutory and other legal rights.

Before using your shower

Please take the time to read and understand the operating and safety instructions detailed in this manual.

What to do if something goes wrong

If when you first use your shower it doesn't function correctly, first contact your installer to check that installation and commissioning are satisfactory and in accordance with the instructions in this manual. We are on-hand to offer you or your installer any advice you may need.

Should this not resolve the difficulty, simply contact our Customer Services who will give every assistance, and if necessary arrange for our service engineer to visit.

If later the performance of your shower declines, consult this manual to see whether simple home maintenance is required. Please call our Customer Services to talk the difficulty through, request service under guarantee if applicable, or take advantage of our comprehensive After-Sales service.

As part of our quality and training programme calls may be recorded or monitored.

After Sales Service

Our Customer Services Team is comprehensively trained to provide every assistance you may need: help and advice, spare parts or a service visit.

Spare Parts

We maintain an extensive stock of spares, and aim to have functional parts available for ten years from the date of final manufacture of the product.

Spares can be purchased from approved stockists or merchants (locations on request) or direct from Customer Services.

Spares direct will normally be despatched within two working days. Payment can be made by Visa or Access at the time of ordering. Should payment by cheque be preferred a pro-forma invoice will be sent.

Note! In the interests of safety, spares requiring exposure to mains voltages can only be sent to competent persons.

Service

Our Service Force is available to provide a quality service at a reasonable cost. You will have the assurance of a Mira trained engineer/agent, genuine Mira spares – and a 12 month guarantee on the repair.

Payment should be made directly to the Service Engineer/Agent, using Visa, Access or a cheque supported by a banker's card.

To contact us:

England, Scotland & Wales

Mira Showers Customer Services

Telephone: 01242 262888
8.30am to 5pm Working days (4.30pm Fri)
8.30 am to 12.30pm Saturday
E-mail: Mira_technical@mirashowers.com
Fax: 01242 282595
By Post: Cromwell Road
Cheltenham
Gloucester GL52 5EP

For Customers in Northern Ireland

Wm H Leech & Son Ltd

Telephone: 028 9044 9257 – Mon to Fri 9 am-5pm
Fax: 028 9044 9234 – 24 hours
Post: Maryland Industrial Estate
Ballygowan Road
Moneyreagh, Co Down
BT23 6BL

For Customers in Republic of Ireland

Modern Plant Ltd

Telephone: Dublin 01 4591344 - Mon to Fri 9am to 5pm
Fax: Dublin 01 4592329 – 24 hours
Post: Otter House
Naas Road
Clondalkin
Dublin 22

Mira Showers

Kohler Mira Ltd
Cromwell Road,
Cheltenham GL52 5EP.

Mira is a registered trade mark.
The company reserves the right to alter product specifications without notice.

www.mirashowers.com



BS EN ISO 9001 : 1994
Reg. No. FM 14648

mira
SHOWERS