



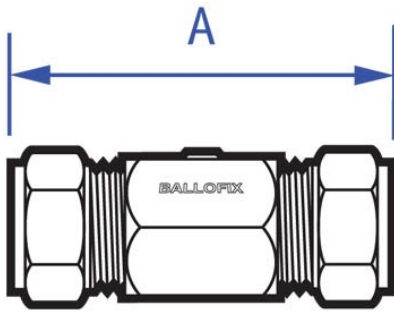
Ballofix isolating ball valve - straight pattern. Compression ends. Screwdriver operation. DZR brass, plain finish.

CxC Brass Screw Driver Slot



Size	Pattern No.	Pack 1 Qty	Pack 2 Qty	Code	Barcode	Price (£) ex VAT
15mm		10	100	13540	5708537347081	£12.57
22mm		1	10	13563	5708537388565	£16.64
28mm		1	5	13575	5708537388572	£59.20

CxC Brass Screw Driver Slot



Code	Description	A	Kg
13540	15mm 3381YA	41	0.14
13563	22mm 3481YA	57	0.22
13575	28mm 3581YA	65	0.54

Pegler Yorkshire reserve the right to change specifications

5 Year Guarantee

Luxury Taps and Mixers

Pegler Yorkshire Customcare 5 Year Guarantee - Terms and Conditions

Product are subject to a 5 year guarantee that is between Pegler Yorkshire and the final purchaser of the product.

The guarantee is subject to proof of purchase being supplied.

This guarantee does not affect any statutory rights the consumer may have in law.

The guarantee covers manufacturing or material defects and does not cover parts subject to normal wear and tear.

Finishes other than chrome are covered for a period of 3 years only and the guarantee on the finish is subject to the cleaning instructions being followed.

The guarantee is not applicable where the product is fitted contrary to the conditions in the fitting instructions.

Abusive behaviour and accidental damage to the product are not covered by this guarantee.

The extent of this liability is limited to the cost of the replacement of the defective item and not to fitting or consequential damages.



experience design innovation

You're Guide to the Installation, Care and maintenance of

Francis Pegler Paramic Single Sequential Exposed Thermostatic Shower

For further information, please contact your appropriate sales office:

HEAD OFFICE

Pegler Limited
St Catherines Avenue
Doncaster,
South Yorkshire DN4 8DF

Tel: 01302 560560
Fax: 01302 367661

EXPORT

Tel: 44 (0) 1302 855656
Fax: 44(0) 1302 730513

Email: export@pegler.co.uk

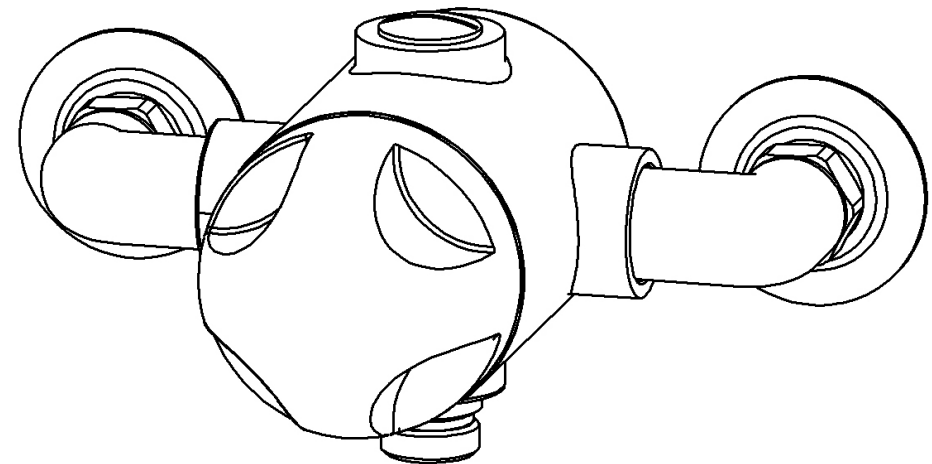
UK

Northern team:
Tel: 0870 1200281
Fax: 01302 560108

Southern team:
Tel: 0870 1200282
Fax: 01302 560458

Western team:
Tel: 0870 1200283
Fax: 01302 560109

Email: uk.sales@pegler.co.uk



Technical customer care line 0870 1200285

www.pegler.co.uk

Showers are guaranteed for 5 years from the date of purchase. Full guarantee details are available on request.



Pegler Limited, St Catherine's Avenue, Doncaster DN4 8DF
Telephone 01302 560560, Fax 01302 560459

Introduction

All Pegler thermostatic showers are designed to ensure a stable showering temperature during showering even when other outlets in the system are being used e.g. washing machines. The products will also close down in the event of cold-water failure reducing the risk of scalding. These products are also designed from rugged engineering materials to give you years of trouble free service and are backed by the Pegler Customer Promise.

Water Bylaw requirements.

It is important to ensure that the water supplies to your shower are connected in accordance with the water regulations (WRAS) requirements and good plumbing practice. It is Pegler's recommendation and good plumbing practice that the supplies of hot and cold water to the shower valve should be equal (balanced) pressure in order to provide a consistent flow. Supplies should be from a commons source, either mains or tank fed. If supplies are not equal pressures then a Non Return Valve (Pegler 801 Non Return Valve) should be fitted.

Bylaw 17 (2) B

The shower head of any shower hose pipe should be fitted by a fixed or sliding attachment so that it can only be discharged at a point not less than 25mm above the spill-over level of the bath tray or fixed appliance.

Bylaw 30 (2)

Where the shower valve is supplied with hot water from a storage cistern and cold water from the mains supply pipe a cold storage cistern that complies to bylaw 30 (2) must be used.

Water Supply Operating Pressures.

Pegler thermostatic shower fittings have been designed to function under the following conditions:

Maximum static water 5.0 bar

Minimum flowing water pressure 0.1 bar

Optimum operation pressures 1.0 bar

Recommended maximum hot supply temperature 85°C

Recommended minimum hot supply temperature 65°C

Please Note:

- Operating pressure (on hot and cold line) should be kept as balanced as possible in order to assure maximum efficiency.
- When the supply is higher than 5 Bar a Pressure Reducing Valve should be fitted before the shower valve. (Pegler PRV-2)
- Ensure all supply pipes are flushed before fitting the valve, as debris will prevent the shower working to its optimum level.
- To prevent debris damaging the mixers we recommend that you fit the filters provided.
- Your Pegler thermostatic shower has been designed to give you years of trouble free showering. However, it may require servicing from time to time to retain optimum performance. Therefore we recommend the fitting of in-line service valves upstream of the shower valve to allow for servicing of the shower.

Care & Maintenance

To maintain the surface finishes, simply wipe occasionally with a mild detergent on soft damp cloth. Dry using soft cloth, never use abrasive cleaners or chemical household cleaners, and avoid contact with concentrated bleach.

Pegler products are manufactured to the highest standards and should require little or no maintenance. In the unlikely event of any spare part requirements, please visit our website: www.pegler.co.uk, contact your nearest stockist or the Pegler Technical Office on telephone 0870 1200285

Customer Reference Data

Date of Purchase.....

Supplier.....

Supplier Tel. No.....

Model Type.....

Serial No.....

Installer.....

Installer Contact Details.....

TECHNICAL HELPLINE

Tel: 0870 1200285

Fax: 01302 560537

This valve performs well without flow limiters although it is recommended that they be fitted for the purpose of economical water usage. The valve can be used in conjunction with many pumps currently in the market. If you are in doubt of require further information contact us on 0870 1200285.

With certain permutations of Combi-boiler hot supply and mains supply it may be necessary to fit the gray 6-litre limiter.

IMPORTANT: It is a requirement of instantaneous electric water heaters that a stable flow of water passes through the heater. Using a flow stabiliser in the supply to the heater can satisfy this requirement. It should be adjusted to give a flow temperature of 45-50°C from the heater.

MOUNTING – EXPOSED THERMOSTATIC SHOWER:

1. Use the backplate as the template for the fixing holes
2. Drill and plug the wall to suit screws provided.
3. Secure backplate to the wall
4. Flush out pipe work before connecting the valve.
5. Located valve body onto the backplate and lock in position with the 4 grub screws provided.
6. Please note – Before connecting the inlet pipes you must read “**TYPES OF INSTALLATION**” to ensure correct restrictors and filters are fitted.
7. Connect inlet pipes to the valve using the compression fittings on the elbows. Ensure the two loose flanges are used to cover over the holes in the tiles around the exposed pipes.
8. Check joints are watertight
9. Push in the four chrome plugs into the body holes.

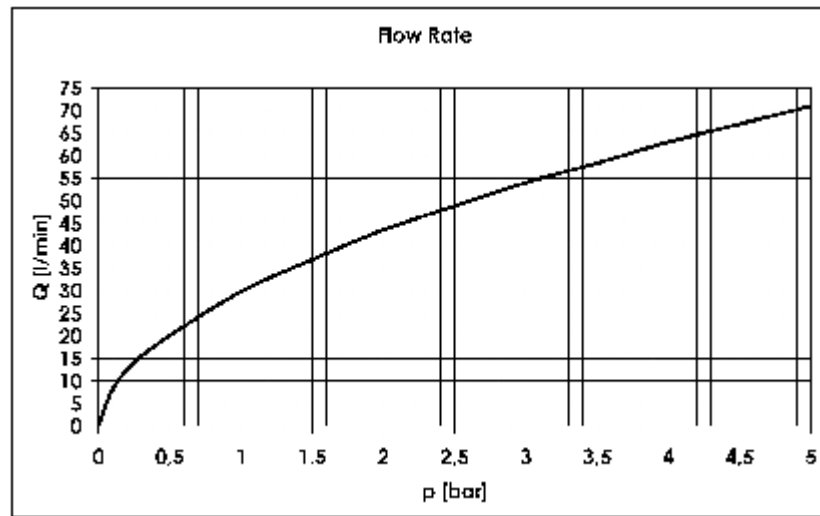
SHOWER VALVE OPERATION

The handle adjusts temperature only. However, first turning the handle anti-clockwise will switch on the water to the maximum flow. Further rotation will progressively increase the temperature to the maximum factory set temperature of 45°C (temperature measured with an open outlet) Please note 45°C with an open outlet is described as water flowing straight from the valve. No hose or fixed pipe is involved. Once fitted with hose or concealed pipe work the outlet temperature will be less due to heat lost in its travel.

- For exposed showers we recommend the purchase of Pegler 808 (order code 523007) Any standard sealant may be used on this product in accordance with the manufactures recommendations.
- Please ensure that you have read and understood all sections of this manual before installation

Water Bye Laws

The mixing valve should be installed in accordance with the water byelaws. For further details refer to the latest copy of Water ByeLaws guide or your local water authority.



General Features

The purchased product is a thermostatic sequential exposed shower valve. The shower has a single handle, which allows both the control of the temperature and the flow rate.

The cold water is obtained by turning the handle from the off position anti-clockwise (NOTE: the temperature of the cold water depends on the system and the pre-set temperature of the shower). By turning the handle both the flow rate and the temperature will increase.

The maximum temperature has been pre-set under factory conditions at approx. 45°C this can be adjusted by following the instructions shown in the section headed REGULATIONS OF THE MAXIMUM TEMPERATURE.

Read the instructions before installation.

The valve needs to be installed by trained staff.

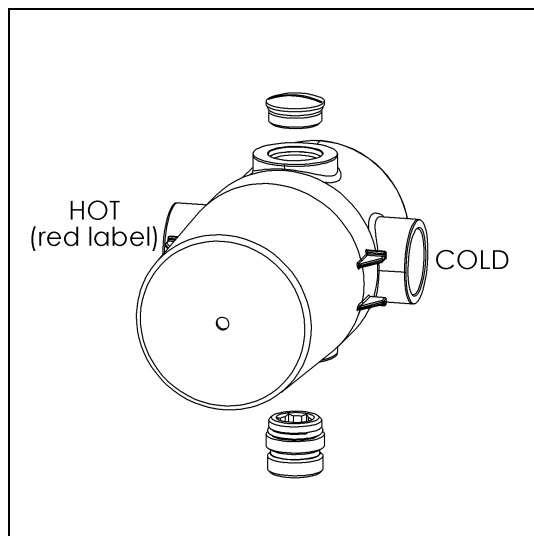
Subject to correct installation, this mixer is suitable for any water heating system. In case of instantaneous heaters, hot water flow must meet at least the minimum flow required by the heater to start and go on burning (see heater specifications).

Technical Data

The water supplies are connected to the mixer via two elbows, which include compression nuts and olives to suit 15mm supply pipes. The inlet cold water is on the right identified with a red nut.

The temperature setting has been carried out under factory conditions and in accordance with BS EN 1111.

The connection of the outlet is made by a straight connector provided with olive and nuts for 15mm pipe. Generally this item has a bottom outlet. **BE CAREFUL**, it is not possible to simply rotate the valve body in order to have a upper outlet.



1. If the bottom outlet is required, unscrew the plug clockwise with a 27mm spanner and the seat with a 12m Allen Key.

SHOWER VALVE SERVICING/MAINTENANCE:

Please note – If your Pegler thermostatic shower fails to operate correctly upon installation or after a short period of time, the following important points should be checked.

1. Check that the valve has been installed correctly in accordance with its particular feed system (see **TYPES OF INSTALLATION**).
2. That the hot water temperature is adequate; the recommended minimum temperature is 60°C
3. Isolating the supplies and ensure that the filters are clean and that the check valves are free to move and are unrestricted (i.e. Hot and Cold water are reaching the valve body)

COMMON PROBLEMS WITH PUMPED SYSTEMS:

1. Insufficient head pressure or flow to initiate pump (Check for blockages in supply or at valve inlets)
2. Airlocks within the pump impellers. Any air bubbles formed by hot water will tend to cling to the top surface of the pipe and dissipate to atmosphere through the vent pipe.

TROUBLESHOOTING

1) REDUCED FLOW RATE

Cause: The inlet filters of the mixer and/or the cartridge are obstructed.

Solution: Cleaning filters and/or cartridge: refer to "CARTRIDGE CHANGE AND CLEANING"

Cleaning mixer filters: refer to "FILTER CLEANING".

2) WRONG SETTING OF THE CARTRIDGE

Causes: The mixer is factory preset at 3 bar and at a temperature of 60-65°C for hot water and 10-15°C for the cold one corresponding to a maximum mixing temperature of 45°C. In every domestic installation temperatures and inlets pressures can differ from those of production.

Solutions: Refer to "REGULATION OF THE MAXIMUM TEMPERATURE"

3) CONTINUOUS TEMPERATURE OSCILLATIONS

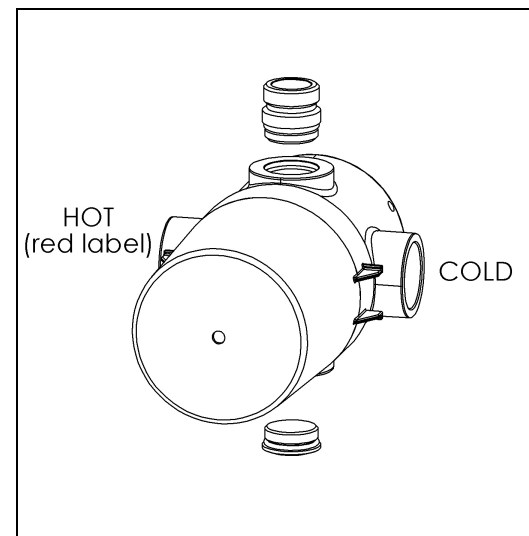
Cause: The mixer has been installed with the inverted inlets.

Solution: Close the main water supply Remove the valve body: refer to "FILTER CLEANING" Rotate the valve body reverse the outlet Re-install the valve body.

4) INCORRECT WORKING OF THE MIXING

Cause: The filters of the cartridge are dirty

Solution: Refer to the "CARTRIDGE CHANGE AND CLEANING"



2. Re-fix the plugs and seat in required position greasing the O-ring before installation.

PLUMBING RECOMMENDATIONS

- An independent hot and cold water supply is required for the shower system (do not pipe off ring main) please refer to installation diagrams.
- Large runs of pipe work will cause frictional loss of pressure.
- The recommended pipe work from both cylinder and water tank should be 22mm minimum for low-pressure systems.
- If more than one shower valve is installed the minimum feed from tank and cylinder should be 28mm. (Ensure adequate supply of both hot and cold water can be maintained).
- In installations where a pump is required, install pump before shower mixer inlets.

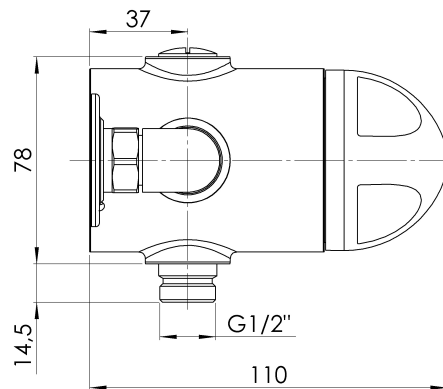
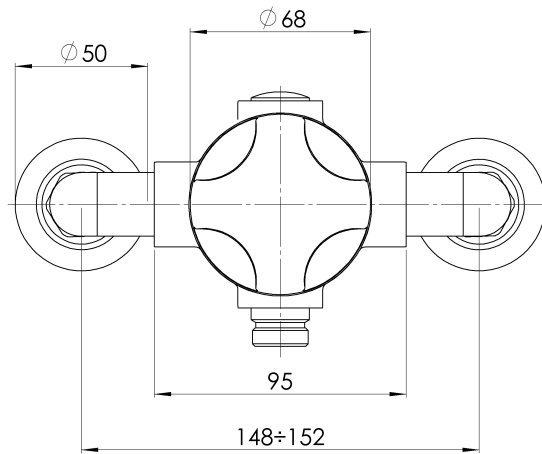
WATER BYE LAWS

The mixing valve should be installed in accordance with the water byelaws. For further details refer to the latest copy of Water ByeLaws guide on your local water authority.

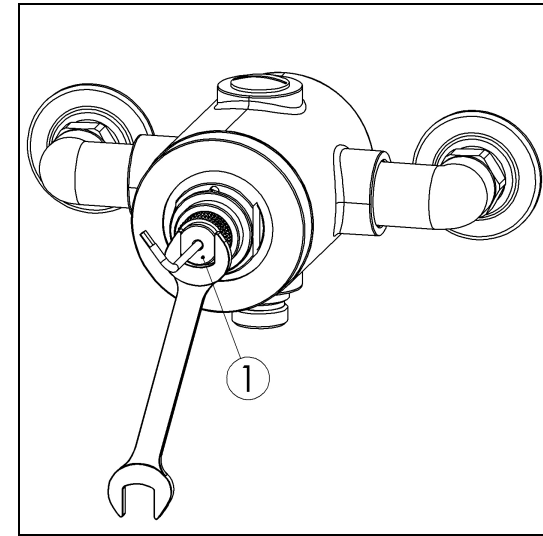
INSTALLATION

Please follow the instructions carefully. The hot water inlet must be on the left side of the mixer. The Pegler valve is manufactured against a standard type of installation, which is for water supplies to be hot on the left and cold on the right when viewing the valve from the front. If the existing pipe work is "hot on the right, cold on the left", the valve can be rotated through 180°C. The outlet adapter and blanking plug can be reversed to give top or bottom outlet as required.

1. In order to install the mixer please carefully follow the instructions:



Please follow the dimensional drawing in order to fix the valve in the correct position.
Please not: the above drawing is generic so handle may vary from purchased valve



3. Slightly unscrew the ring nut (1) with a 13mm spanner. Insert the supplied 2,5mm Allen key into the ring nut (1) and turn anti-clockwise in order to increase the outlet water temperature, clockwise to decrease it.

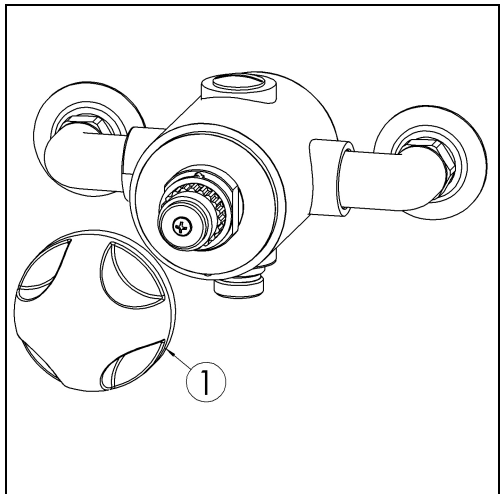
ATTENTION: for the re-assembling please follow the given instruction backward.

Maximum Temperature Setting

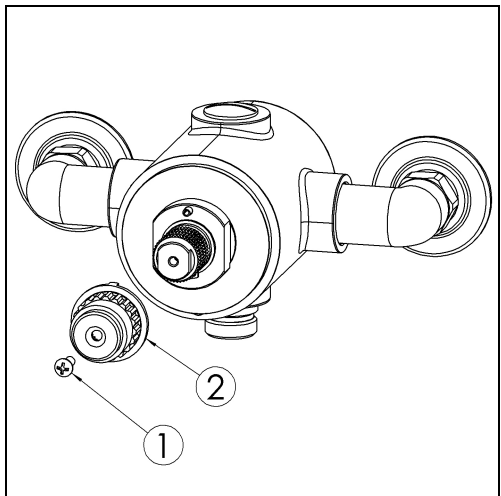
In order to adjust the maximum temperature please proceed as follows:

Shut off the water supply to both inlets.

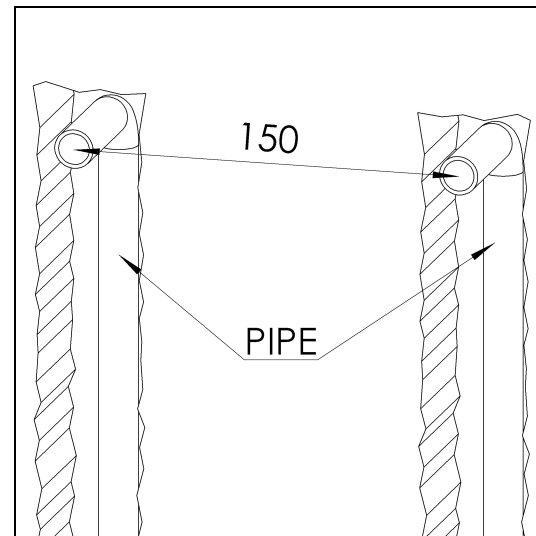
ATTENTION: the purchased mixer is a sequential thermostatic mixer, this means that if the outlet maximum temperature is increased the value of the minimum temperature increases as a consequence.



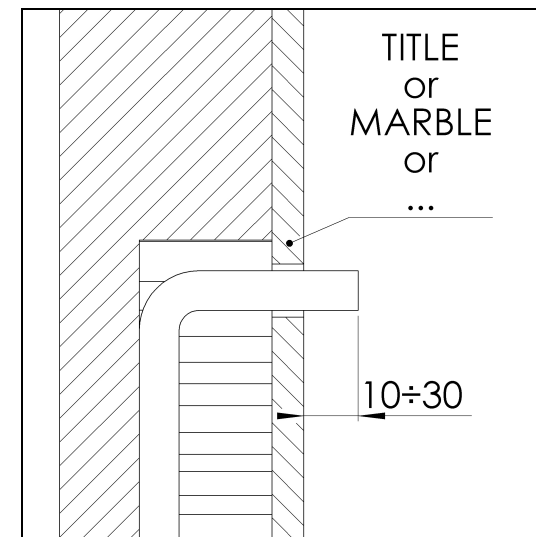
1. Unscrew the lever (2) and the grub screws (2) from the handles (3) with the supplied 2.5mm Allen key



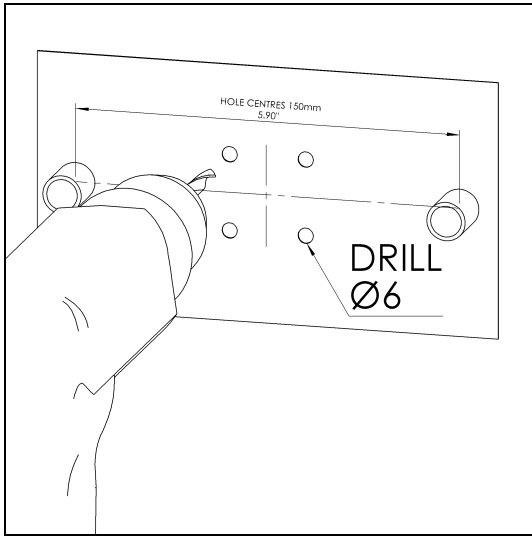
2. Undo the screw (1) with the screwdriver and remove the temperature stop ring (2)



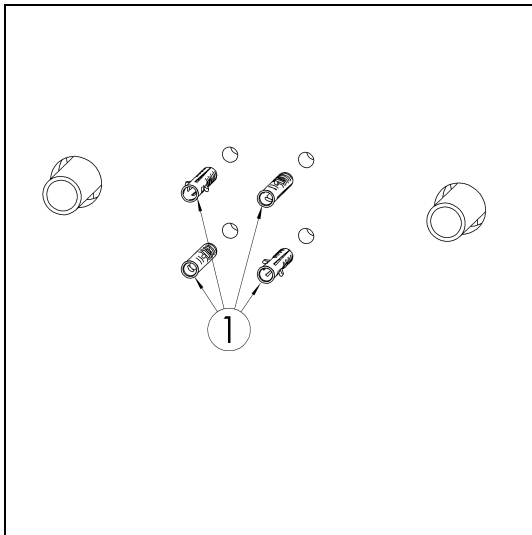
1. Position the two copper pipes on the wall to the desired height and at a distance of 150mm apart. Check the two pipes are lined up the same.



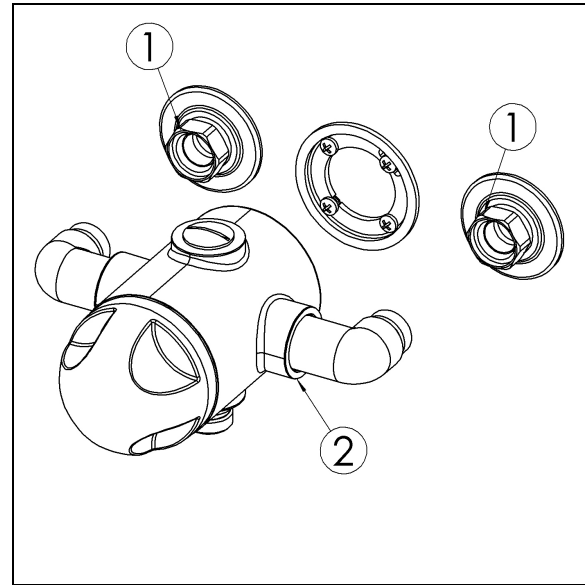
2. Position the copper pipe so it protrudes from the wall at 10-30mm. Also consider the thickness of the covering. The first step has now been completed. Now the brick work and tiling can take place



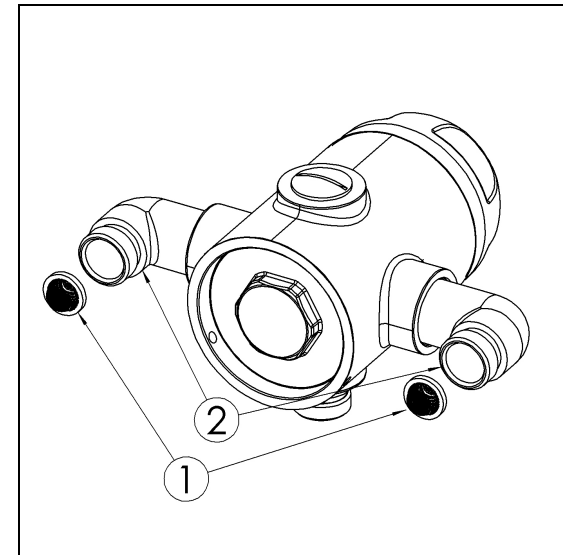
3. Position the available template label on the surface of the wall and drill four holes 6mm in diameter.



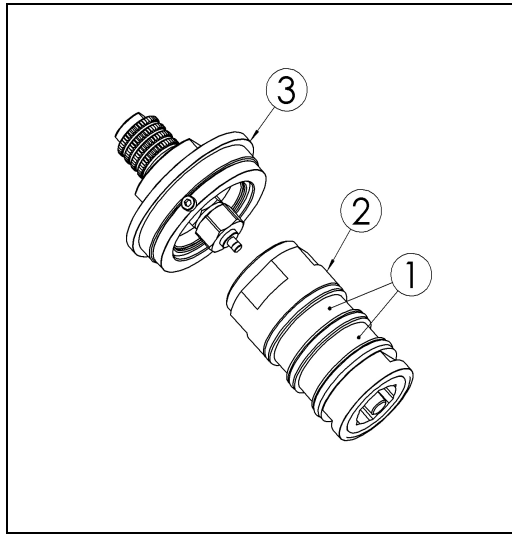
4. Insert the four plugs (1)



2. Unscrew the two caps (1) by using a 30mm spanner. Then remove the mixer (2).



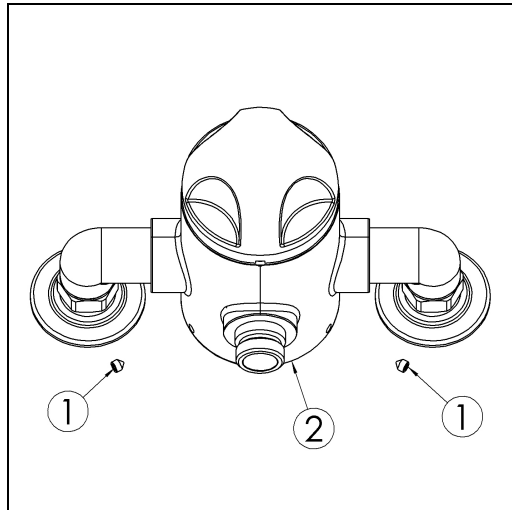
3. Remove the filters (1) from the elbows (2) and replace or clean them under running water. **ATTENTION:** For the re-assembling please follow the given instructions in reverse.



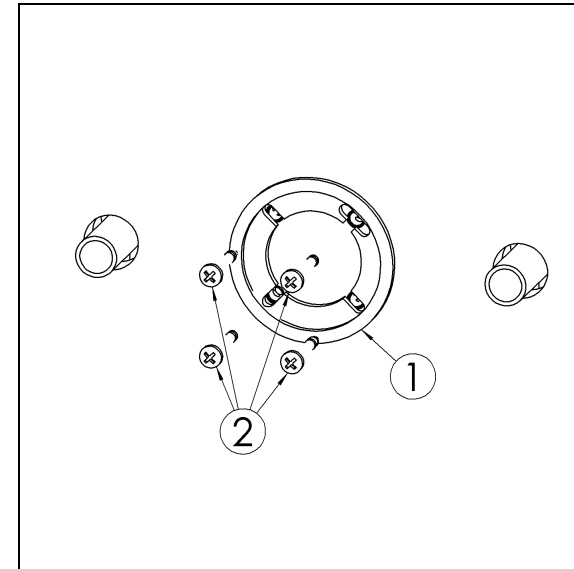
5. Clean the filters (1) under running water or leave to soak in vinegar or descaling agent. To replace filters, unscrew the body of the thermostatic cartridge (2) from the flange (3) by turning clockwise. **ATTENTION:** For the re-assembling please follow the instructions backward

CLEANING – REPLACEMENT OF THE FILTERS

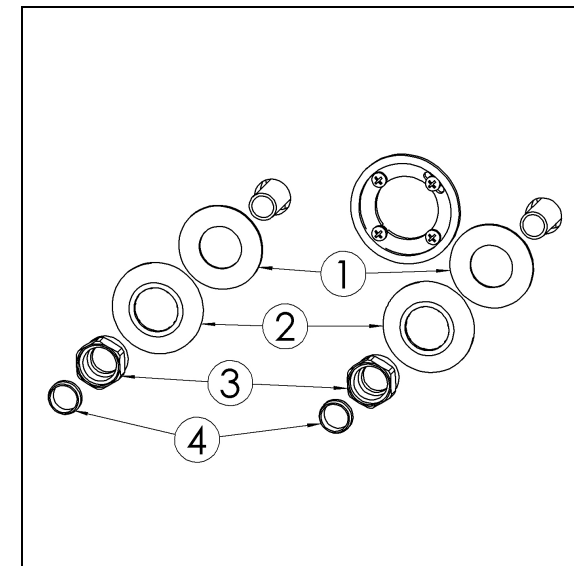
Through years of use impurities and lime scale could restrict flow of water through the filters. In order to clean or replace the filters please proceed as follows. Shut off water supply to both inlets



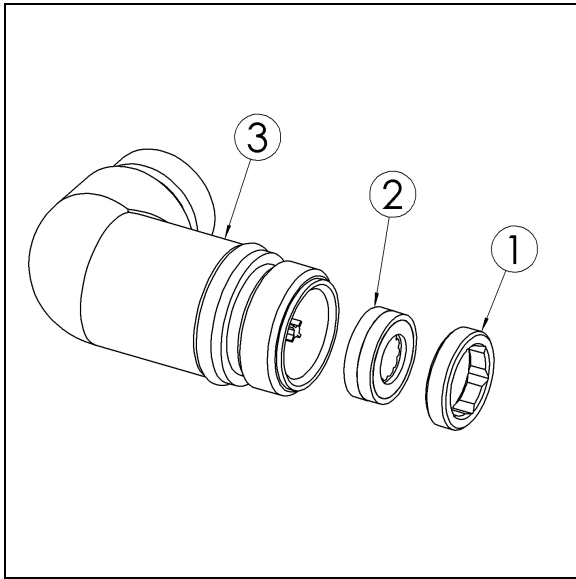
1. Unscrew the grub screws (1) using the 2.5mm Allen key provided, which, sit in the interior part of the body (2)



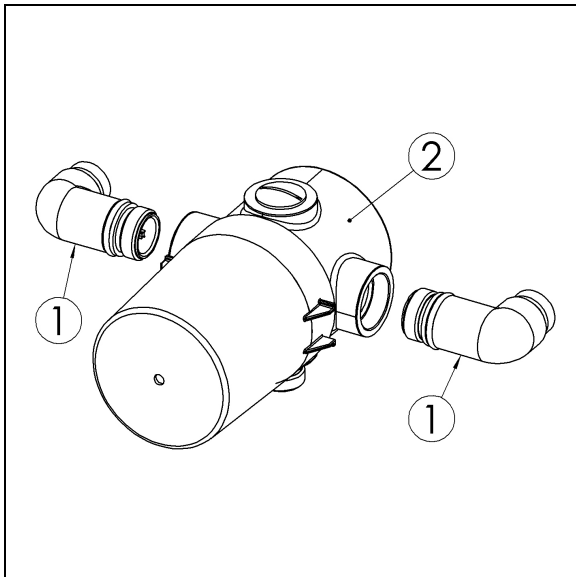
5. Position the flange to the wall and screw the four grapevines (2)



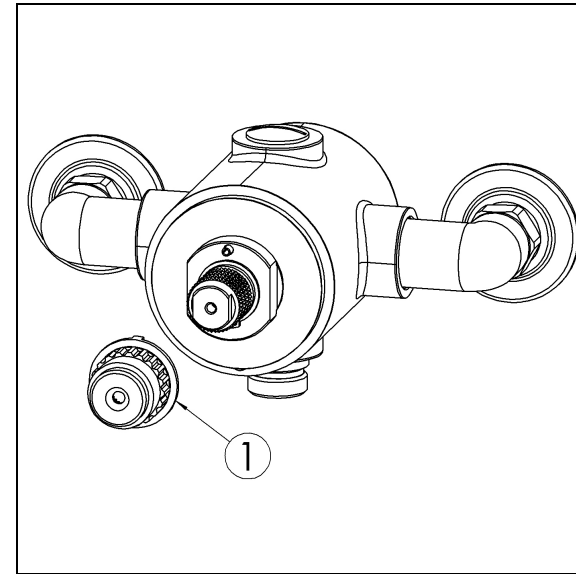
6. Inserts the gaskets (1) , the rosette (2), the caps (3) and the olive nuts (4) to the two copper pipes



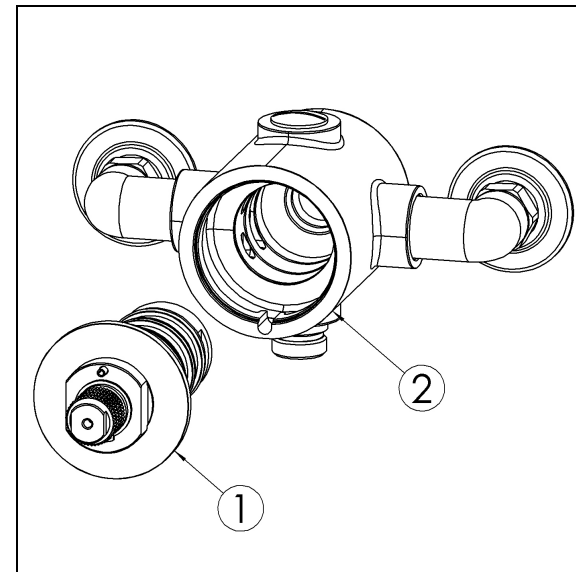
7. If there is a difference in pressure between hot and cold, we suggest the use of the flow restrictor in the inlets: insert the limiter (2) in the elbow (3) as shown in figure, then screw the nut (1) on the elbow (3).



8. Then proceed by screwing the two elbows (1) on the body (2).



3. Remove the temperature stop ring (1) from the mixer.

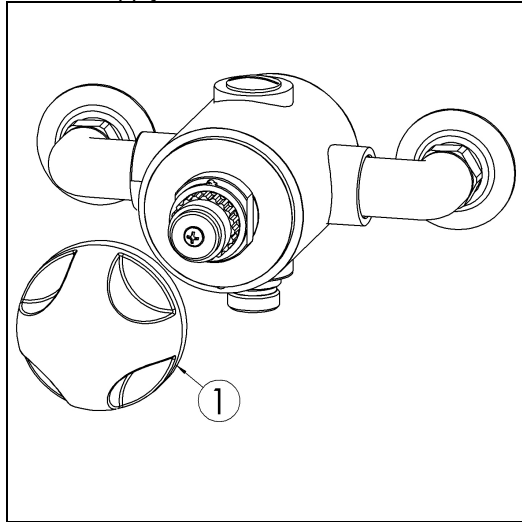


4. By using a 30mm spanner unscrew anti-clockwise the flange (1) of the thermostatic cartridge from the mixer valve (2).

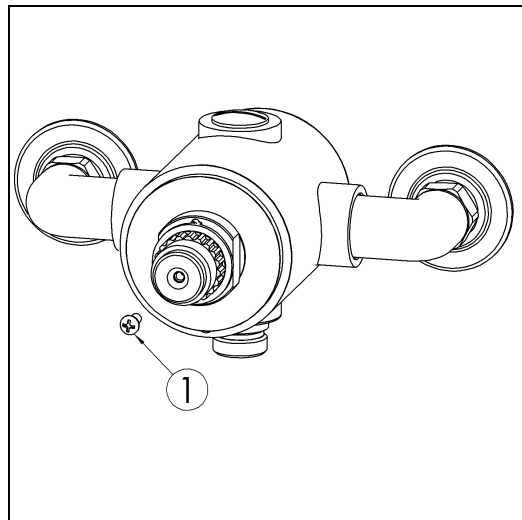
CLEANING – REPLACEMENT OF THE CARTRIDGE:

Through years of use impurities and lime scale could restrict flow of water through the filters of the cartridge.

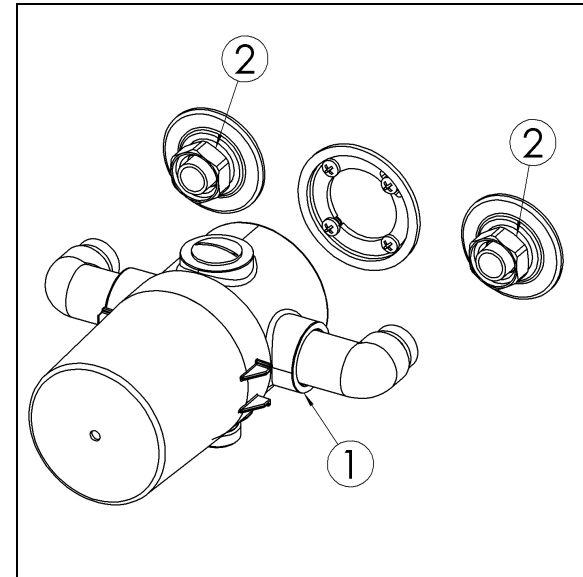
In order to clean the cartridge and for its replacement, please proceed as per the following instructions: - Shut off water supply to both inlets



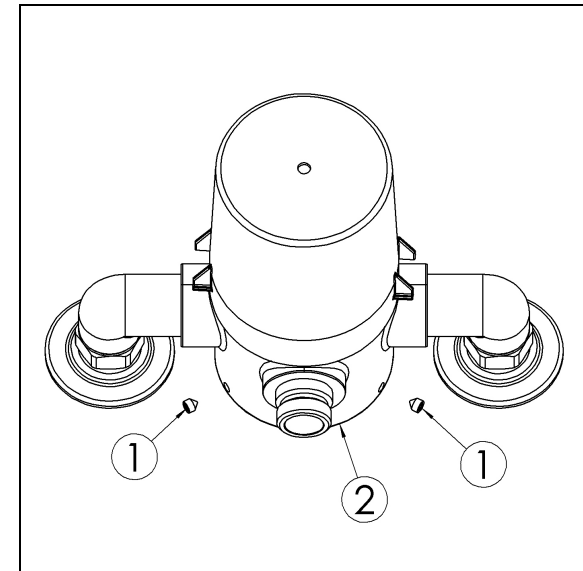
1. Remove the handle (1)



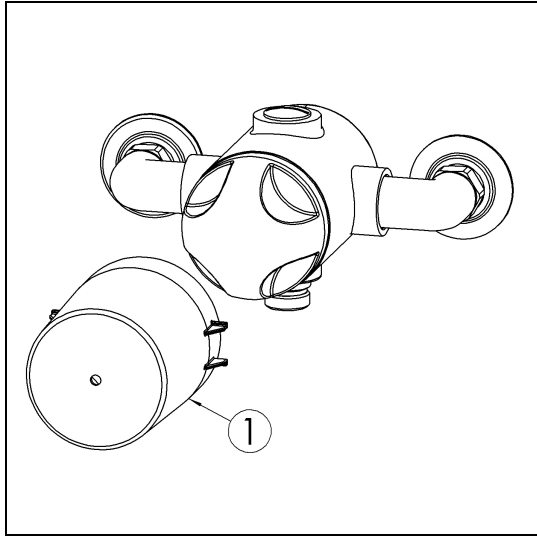
2. Remove the screw (1) with a screwdriver



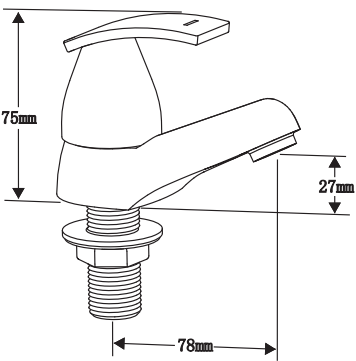
9. Position the mixer (1), and screw the two caps (2) with a 25mm spanner



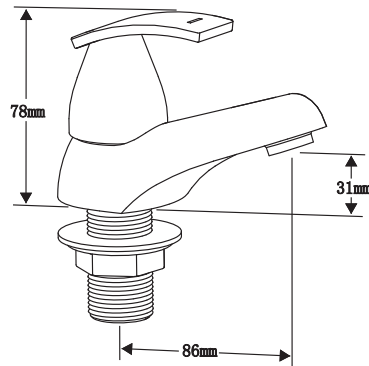
10. Use the 2.5mm Allen key provided, screw the two grub screws (1) into the internal part of the body (2).



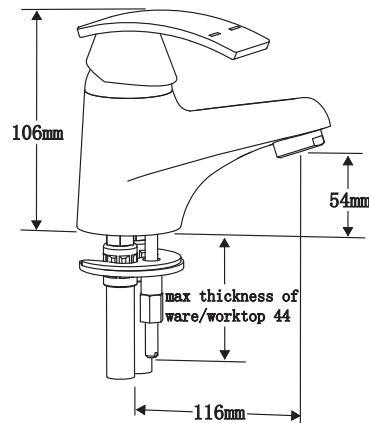
11. Remove the plastic protection (1)



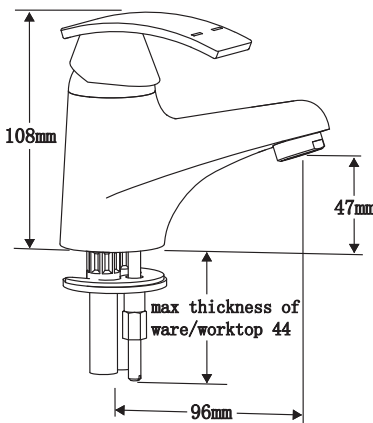
1/2" Basin Taps



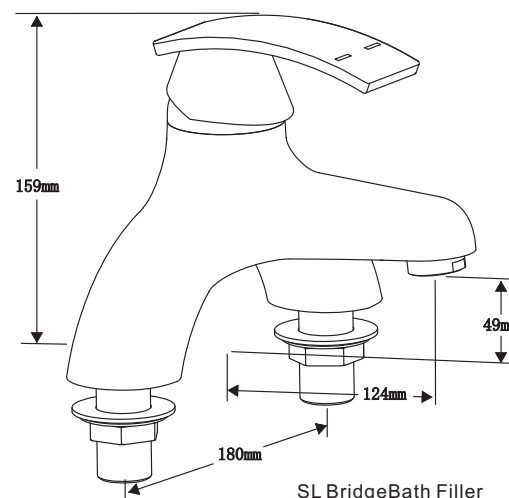
3/4" Basin Taps



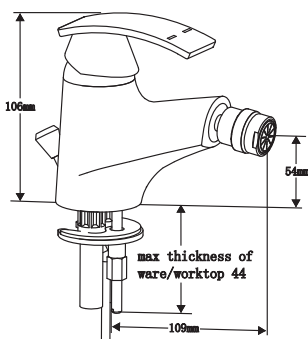
SL Mini Mono Basin



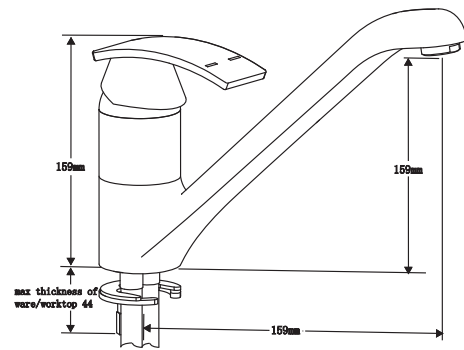
SL Mono Basin



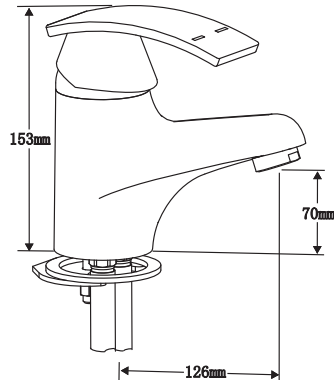
SL BridgeBath Filler



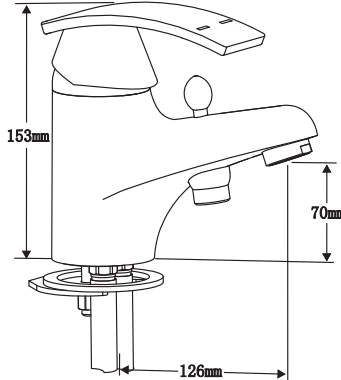
SL Mono Bidet Mixer



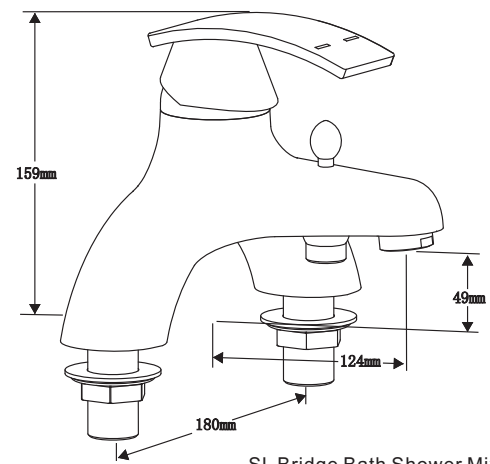
Mono Sink Mixer



SL Mono Bath Filler



SL Mono Bath Shower Mixer



SL Bridge Bath Shower Mixer

Water Regulations Requirements

It is important to ensure that the water supplies to your taps and mixers are connected in accordance with the water regulations (WRAS) requirements and good plumbing practice.

It is Pegler's recommendation and good plumbing practice that the supplies of hot and cold water to the products should be at equal (balanced) pressures in order to provide a consistent flow. Supplies should be from a common source, either mains or tank fed. If supplies are not equal pressures then non return valves should be fitted (supplied).

This products has been designed to function on all types of water systems

Please Note: If a pump is to be installed to boost gravity supplies please refer to the pump manufactures instructions.

The hot and cold inlets for any of the products are hot on the left and cold on the right when viewed from the front of the fitting. It is our recommendation and good plumbing practice that a service valve also (Pegler PB300) should be installed upstream in the inlet supply lines.

Pipe Connections

IMPORTANT. Before making any inlet pipe connections all supplies **MUST** be thoroughly flushed to remove any debris. Failure to do so could result in damage or low flow from the mixing valve. It is a requirement of Byelaw 55 of the Water Fittings Byelaw Scheme that this function is undertaken before making any pipe connections to supplies.

General Installation Notes

- Care must be taken during installation to prevent any risk of damage to the product or injury to installer.
- Installation must be carried out by a qualified and competent person and in accordance with the instructions supplied.
- Installations must comply with all Local and National Water Authority Regulations, and Building/Plumbing Regulations.
- Please ensure that you have read and understood all sections of this manual before Installation.

Water Supply Pressures

Leger fittings have been designed to function under the following conditions:

- Minimum supply pressure 0.1 bar.
- Maximum supply pressure 6.0 bar.

Generous flow rates are achieved at pressures as low as 0.1 bar. At high pressures it may be necessary to reduce excessive flow rates by fitting stop or servicing valve in the supply line before the mixer or tap. These stop valves facilitate ease of maintenance should it be Necessary.

Please Note: The mono basin mixer L565 is supplied with flow straightener fitted and an alternative aerator nozzle packed separately which can be fitted at high pressures to reduce Splashing.

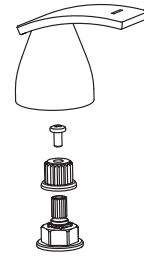
Installation

Pillar Taps

- Remove backnut from tap tail.
- Fit tap through ware ensuring anti-rotational washer is trapped in position Between tap base and ware, replace backnut and tighten.
- Thoroughly flush pipework and connect to tap. Hot should be on the left and cold On the right when viewing pipework from the front.

- Mono Sink Mixer**
- Screw inlet tails into body and tighten up ensuring washer seal is firmly in place to prevent any leaks.
 - Screw in the clamping stud into the body and position rubber seal under the base of the mixer, then position the mixer into the ware in desired position ensuring lever movement is not obstructed.
 - Please note: Ensure free movement of spout is adequate before clamping in position.
 - To tighten the mixer to the ware, Firstly, place clamping plate rubber then the steel clamping Plate onto the stud, then secure by screwing tight the clamping nut. Re check the mixer position above the ware and ensure the spout still rotates freely.
 - Connect inlets to supplies, (Fit non return valves if system is imbalanced

- To fit handles (Where applicable)**
- To fit handle place snap fit connector
- onto spline of headwork
 - and screw down firmly using screw provided
 - Place handle
 - over connector and push firmly until it snaps home.



Bridge Bath Filler/Bath Shower Mixer

- Remove backnuts from inlet tails and fit tails through tap holes of bath ensuring base rubber is trapped between bath and fitting. Replace and tighten backnuts from beneath bath.
- Thoroughly flush pipework and connect tap to the supplies ensuring hot is on the left and cold on the right when viewing the mixer from the front.
- Fit shower hose and kit to the bath mixer.
- For all brassware supplied without handles, see separate handles instructions.
- For servicing or handle realignment the brassware supplied will be:
 - Snap on (push on –pull off)
 - Fixed with a locating screw
 - Fixed handle and spindle
- Fixing the kit to Bath Shower mixers
 - Mark the holes and drill with 6mm bore
 - Insert plugs and fasten screw
 - Click on the shell and connect the shower hose

Care & Maintenance

To maintain the surface finishes, simply wipe occasionally with a mild detergent on a soft damp cloth. Dry using a soft cloth, never use abrasive cleansers or chemical household cleaners, and avoid contact with concentrated bleach. Applause products are manufactured to the highest of standards and should require little or no maintenance. In the unlikely event of any spare part requirements, please contact your nearest stockist or the Pegler Sales Office, St Catherine' s Avenue, Doncaster. DN4 8DF, Telephone 01302 368581.

To maintain the surface finishes, simply wipe occasionally with a mild detergent on soft damp cloth. Dry using soft cloth, never use abrasive cleaners or chemical household cleaners, avoid contact with concentrated bleach.

Pegler products are manufactured to the highest standards and should require little or no maintenance. In the unlikely event of any spare part requirements, please visit our website: www.pegler.co.uk , contact you' re nearest stockist or the Pegler Technical Office on telephone 0870 1200285

Customer Reference Data

Date of Purchase.....

Supplier.....

Supplier Tel. No.....

Model Type.....

Serial No.....

Installer.....

Installer Contact Details.....



Bath Filler and Bath Shower Mixer without Adaptor

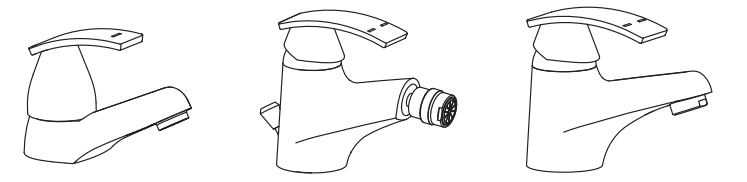
- Ensure that the O ring seals are fitted correctly in their grooves screw the tails into the body.
- Screw stud into body.
- Place O ring into recess in the base of body and put body onto ware.
- Place clamping plate and washer onto clamping stud with washer towards the ware.
- Attach clamping nut to the stud and tighten up to ware. Attach tails to the water supply and check for leaks.
- Fixing the kit to Bath Shower mixers
 - Mark the holes and drill with 6mm bore
 - Insert plugs and fasten screw
 - Click on the shell and connect the shower hose

Monobloc Basin/Bidet Mixer

- Pegler Basin mixers are supplied with separate inlet tails. M12 flexible tails 12" long
- screw inlet tails into body and tighten up ensuring 'O' ring seal is firmly in place and leak proof, unless pre fitted securing studs to be fitted and tighten
 - Locate seal under flange (or base of monobloc).
 - Place fittings through hole in ware. Place washer over inlet tails and position on underside of ware. Place clamping plate on threaded stud/s ensuring that stud is positioned in the slot in the clamping plate and that the inlet tails are positioned in the cut out. Place fixing nut onto threaded studs and loosely tighten firmly up the base of Ware / worktop.
 - Insert click waste
 - Ensure pipework is thoroughly flushed to remove debris before connecting to the fitting,
 - Connect to the water supplies.
 - Ensure that the O ring seals are fitted correctly in their grooves screw the tails into the body.

Your Guide to the Installation, Care and maintenance of

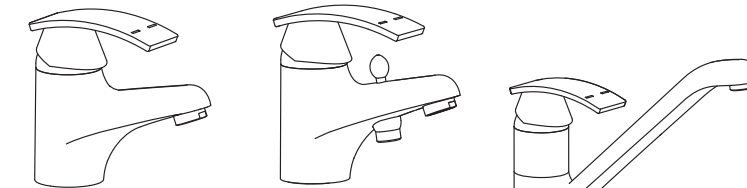
Rossi



1/2" Basin Taps
3/4" Basin Taps

SL Mono Bidet Mixer

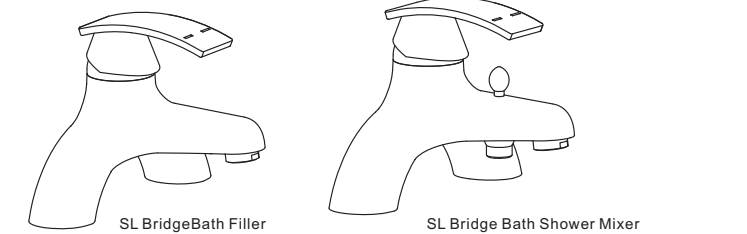
SL Mono Basin
SL Mini Mono Basin



SL Mono Bath Filler

SL Mono Bath Shower Mixer

Mono Sink Mixer



SL BridgeBath Filler

SL Bridge Bath Shower Mixer

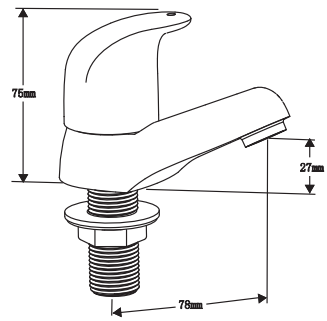


Pegler Yorkshire

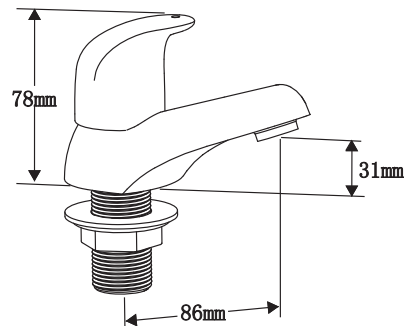
Pegler Limited, St Catherine' s Avenue, Doncaster DN4 8DF
Telephone 01302 560560, Fax 01302 560109



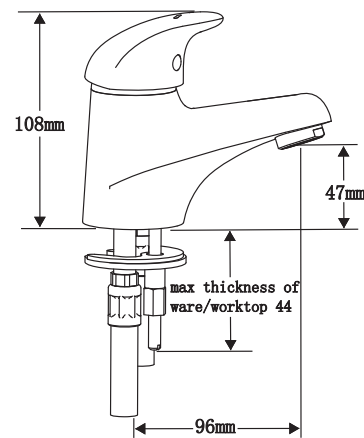
Pegler Limited, St Catherine' s Avenue, Doncaster DN4 8DF
Telephone 01302 560560, Fax 01302 560109



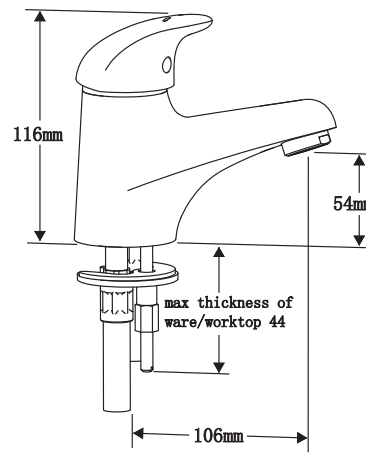
1/2" Basin Taps



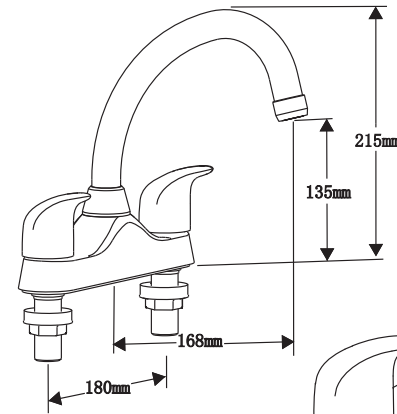
3/4" Basin Taps



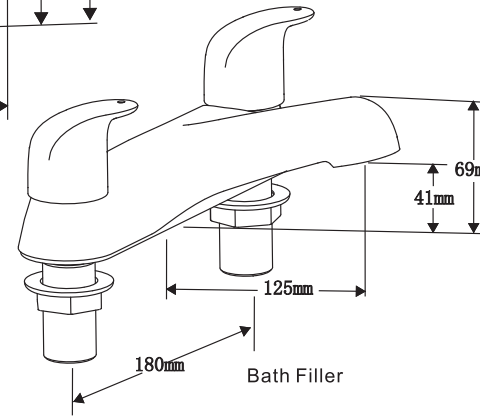
SL Mini Mono Basin



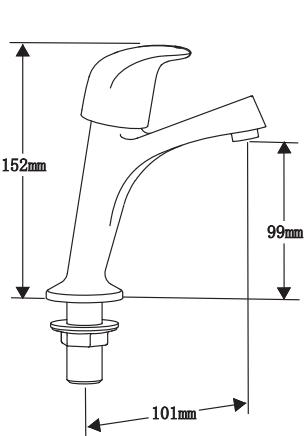
SL Mono Basin



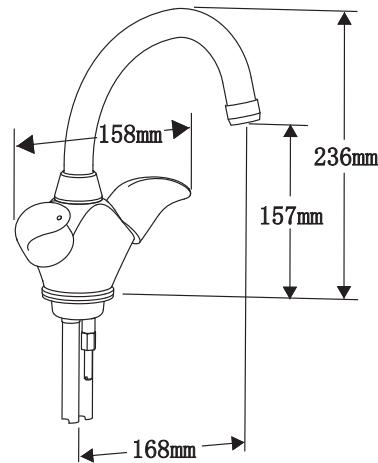
Deck Sink Mixer



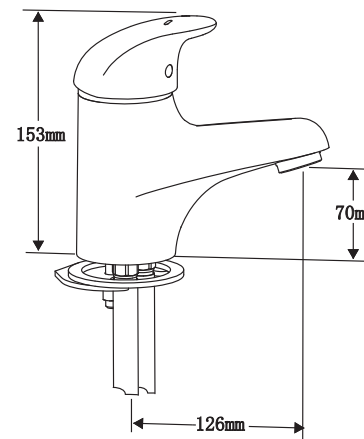
Bath Filler



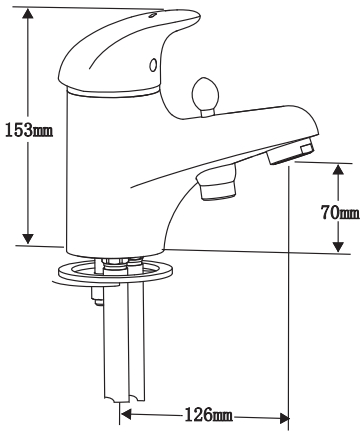
1/2" High Neck Pillar Taps



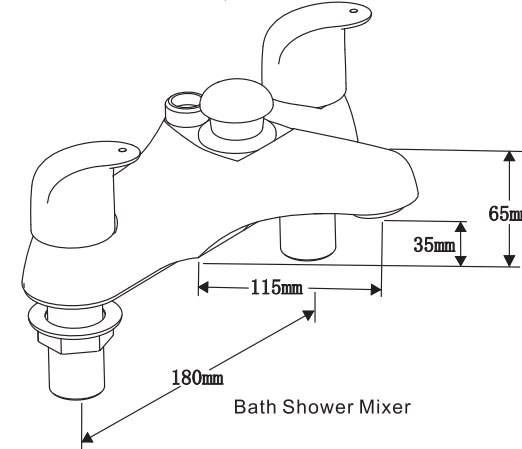
Mono Sink Mixer



SL Mono Bath Filler



SL Mono Bath Shower Mixer



Bath Shower Mixer

Water Regulations Requirements

It is important to ensure that the water supplies to your taps and mixers are connected in accordance with the water regulations (WRAS) requirements and good plumbing practice.

It is Pegler's recommendation and good plumbing practice that the supplies of hot and cold water to the products should be at equal (balanced) pressures in order to provide a consistent flow. Supplies should be from a common source, either mains or tank fed. If supplies are not equal pressures then non return valves should be fitted (supplied).

This products has been designed to function on all types of water systems

Please Note: If a pump is to be installed to boost gravity supplies please refer to the pump manufactures instructions.

The hot and cold inlets for any of the products are hot on the left and cold on the right when viewed from the front of the fitting. It is our recommendation and good plumbing practice that a service valve also (Pegler PB300) should be installed upstream in the inlet supply lines.

Pipe Connections

IMPORTANT. Before making any inlet pipe connections all supplies **MUST** be thoroughly flushed to remove any debris. Failure to do so could result in damage or low flow from the mixing valve. It is a requirement of Byelaw 55 of the Water Fittings Byelaw Scheme that this function is undertaken before making any pipe connections to supplies.

General Installation Notes

- Care must be taken during installation to prevent any risk of damage to the product or Injury to installer.
- Installation must be carried out by a qualified and competent person and in accordance with the instructions supplied.
- Installations must comply with all Local and National Water Authority Regulations, and Building/Plumbing Regulations.
- Please ensure that you have read and understood all sections of this manual before Installation.

Water Supply Pressures

Leger fittings have been designed to function under the following conditions:

- Minimum supply pressure 0.1 bar.
- Maximum supply pressure 6.0 bar.

Generous flow rates are achieved at pressures as low as 0.1 bar. At high pressures it may be necessary to reduce excessive flow rates by fitting stop or servicing valve in the supply line before the mixer or tap. These stop valves facilitate ease of maintenance should it be Necessary.

Please Note: The mono basin mixer L565 is supplied with flow straightener fitted and an alternative aerator nozzle packed separately which can be fitted at high pressures to reduce Splashing.

Installation

Pillar Taps

- Remove backnut from tap tail.
- Fit tap through ware ensuring anti-rotational washer is trapped in position Between tap base and ware, replace backnut and tighten.
- Thoroughly flush pipework and connect to tap. Hot should be on the left and cold On the right when viewing pipework from the front.

Deck Sink Mixers

- i) Remove backnut from tails and fit tails through tap holes of bath ensuring base Rubber is trapped between bath and fitting.
- ii) Locate spacer washer on tails of tap and tighten backnuts.
- iii) Ensure pipework is thoroughly flushed to remove debris before connecting to water supplies.

Mono Sink Mixer

- i) Screw inlet tails into body and tighten up ensuring washer seal is firmly in place to prevent any leaks.
- ii) Screw in the clamping stud into the body and position rubber seal under the base of the mixer, then position the mixer into the ware in desired position ensuring lever movement is not obstructed.
- iii) Please note: Ensure free movement of spout is adequate before clamping in position.
- iv) To tighten the mixer to the ware, Firstly, place clamping plate rubber then the steel clamping Plate onto the stud, then secure by screwing tight the clamping nut. Re check the mixer position above the ware and ensure the spout still rotates freely.
- v) Connect inlets to supplies, (Fit non return valves if system is imbalanced)

BATH FILLER/ BATH SHOWER MIXER

- i) Remove backnuts from inlet tails and fit tails through tap holes of bath ensuring base rubber is trapped between bath and fitting. Replace and tighten backnuts from beneath bath.
- ii) Thoroughly flush pipework and connect tap to the supplies ensuring hot is on the left and cold on the right when viewing the mixer from the front.
- iii) Fit shower hose and kit to the bath mixer.
- iv) For all brassware supplied without handles, see separate handles instructions.
- v) For servicing or handle realignment the brassware supplied will be:
 - Snap on (push on –pull off)
 - Fixed with a locating screw
 - Fixed handle and spindle
- vi) Fixing the kit to Bath Shower mixers
 - Mark the holes and drill with 6mm bore
 - Insert plugs and fasten screw
 - Click on the shell and connect the shower hose

SL Bath Filler and Bath Shower Mixer without Adaptor

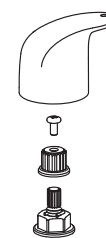
- i) Ensure that the O ring seals are fitted correctly in their grooves screw the tails into the body.
- ii) Screw stud into body.
- iii) Place O ring into recess in the base of body and put body onto ware.
- iv) Place clamping plate and washer onto clamping stud with washer towards the ware.
- v) Attach clamping nut to the stud and tighten up to ware. Attach tails to the water supply and check for leaks.
- vi) Fixing the kit to Bath Shower mixers
 - Mark the holes and drill with 6mm bore
 - Insert plugs and fasten screw
 - Click on the shell and connect the shower hose

MONOBLOC BASIN MIXER

- Pegler Basin mixers are supplied with separate inlet tails. M12 flexible tails 12" long
- i) screw inlet tails into body and tighten up ensuring 'O' ring seal is firmly in place and leak proof, unless pre fitted securing studs to be fitted and tighten
 - ii) Locate seal under flange (or base of monobloc).
 - iii) Place fittings through hole in ware. Place washer over inlet tails and position on underside of ware. Place clamping plate on threaded stud/s ensuring that stud is positioned in the slot in the clamping plate and that the inlet tails are positioned in the cut out. Place fixing nut onto threaded studs and loosely tighten firmly up the base of Ware / worktop.

To fit handles (Where applicable)

- To fit handle place snap fit connector (A) onto spline of headwork (B) and screw down firmly using screw provided (C). Place handle (D) over connector and push firmly until it snaps home.



Care & Maintenance

To maintain the surface finishes, simply wipe occasionally with a mild detergent on a soft damp cloth. Dry using a soft cloth, never use abrasive cleansers or chemical household cleaners, and avoid contact with concentrated bleach. Applause products are manufactured to the highest of standards and should require little or no maintenance. In the unlikely event of any spare part requirements, please contact your nearest stockist or the Pegler Sales Office, St Catherine' s Avenue, Doncaster. DN4 8DF, Telephone 01302 368581.

To maintain the surface finishes, simply wipe occasionally with a mild detergent on soft damp cloth. Dry using soft cloth, never use abrasive cleaners or chemical household cleaners, avoid contact with concentrated bleach.

Pegler products are manufactured to the highest standards and should require little or no maintenance. In the unlikely event of any spare part requirements, please visit our website: www.pegler.co.uk, contact you' re nearest stockist or the Pegler Technical Office on telephone 0870 1200285

Customer Reference Data

Date of Purchase.....

Supplier.....

Supplier Tel. No.....

Model Type.....

Serial No.....

Installer.....

Installer Contact Details.....

Northern Area
Western Area
Southern Area



You' re Guide to the Installation, Care and maintenance of

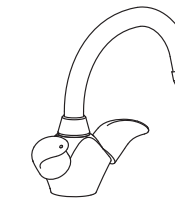
Haze



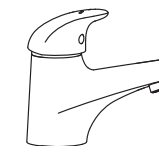
1/2" Basin Taps
3/4" Basin Taps



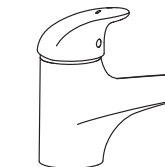
High neck
Pillar Taps



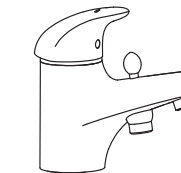
Mono Sink Mixer



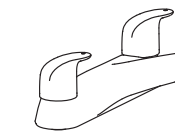
SL Mono Basin
SL Mini Mono Basin



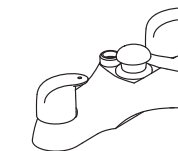
SL Mono Bath Filler



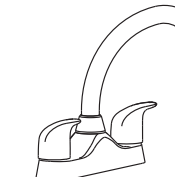
SL Mono Bath
Shower Mixer



Bath Filler



Deck Bath
Shower Mixer



Deck Sink Mixer

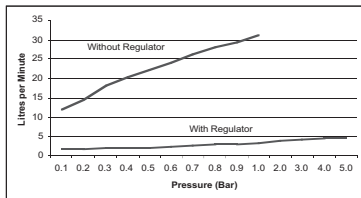


Pegler Limited, St Catherine' s Avenue, Doncaster DN4 8DF
Telephone 01302 560560, Fax 01302 560109



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Pegler sees the ever increasing importance of restricting water in places of need or conservation and as such identifies the need to regulate flow accordingly. Regulating the flow, specifically on basin fittings where the restriction does not impact on daily activities such as cleaning your teeth or washing your hands makes an immediate impact of water conservation, specifically when water is openly flowing.



As such the use of this regulator on both hot and cold basin taps conforms to the requirements of the Enhanced Capital Allowance Scheme.

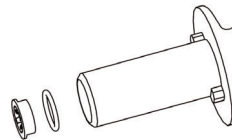
The use of this regulator will hold back the flow of water to a limit of 4.0 ($\pm 15\%$) litres per minute no matter what the pressure. A restriction will be evident at all pressures although full benefits are seen when installed on higher pressures. This graph is only a suggestion of the water saving you could experience. Please Note: Each tap design will be different!

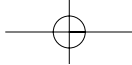
These regulators can be used in conjunction with any Pegler 1/2" basin taps.

INSTRUCTIONS

It is important to ensure that the water supplies to your taps are connected in accordance with water regulation (WRAS) requirements and good plumbing practise. Ensure that the system has been fully flushed before installing any taps, as debris in the system will impair the performance of both the regulator and the tap. The fitting of isolating valves upstream of the tap is also advised to aid maintenance. Use Pegler 808 isolating valves.

Ensure 'O' ring is fitted around the outside diameter of the regulator.

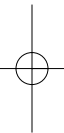




Note: The internal 'O' ring is unlikely to get blocked in hard water areas as the flowing water when in operation oscillates and self cleans any build up.

Insert regulator into threaded tail of the tap, and push inside the tail until it hits the internal pipe stop.

Use a Pegler tap adaptor (ref: Prestex 43 straight connector order code: 713007 or 43B bent connector order code: 714007) and then fit to tap to water supply according to Pegler's instructions.



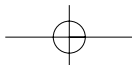
PERFORMA 4.0 Litre FLOW REGULATOR

Pegler products are manufactured to the highest standard and should require little or no maintenance.

In the unlikely event of any spare parts requirements, please visit our website
www.pegler.co.uk

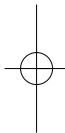
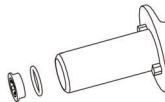
contact your nearest stockist or the
pegler Technical Office on
telephone 0870 1200285

Pegler Limited, St. Catherine's Avenue,
Doncaster, South Yorkshire. DN4 8DF
Telephone: 01302 560560 Fax: 01302 560109

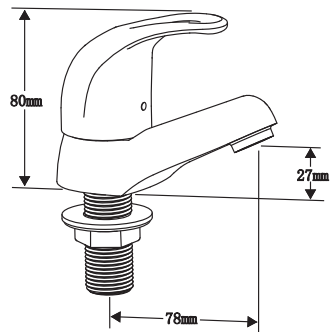


PERFORMA

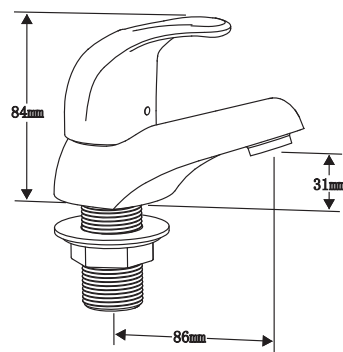
PERFORMA 4.0 Litre FLOW REGULATOR



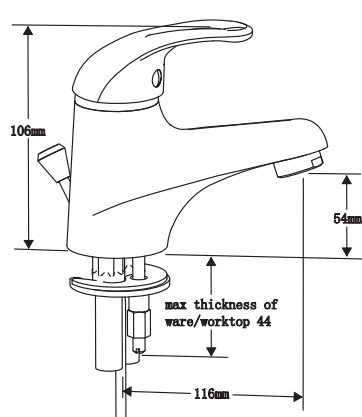
**Installation
and User Guide**



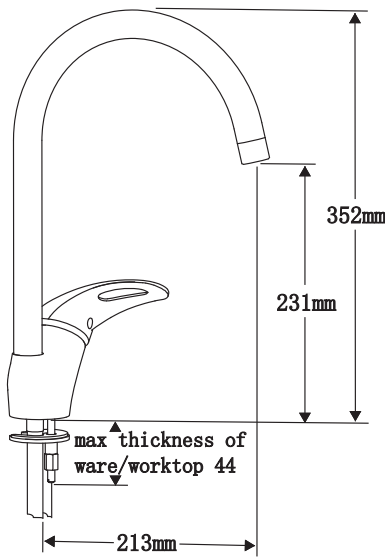
1/2" Basin Taps



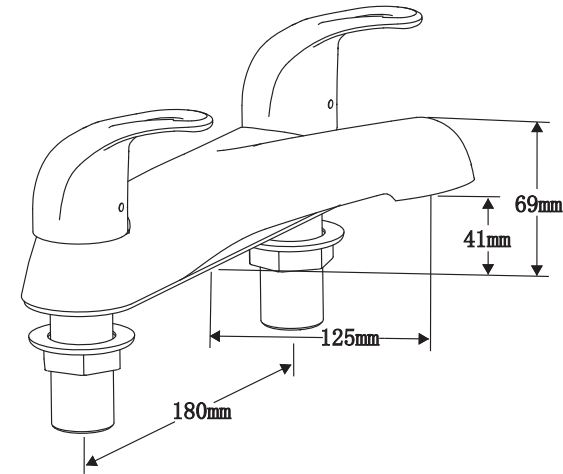
3/4" Basin Taps



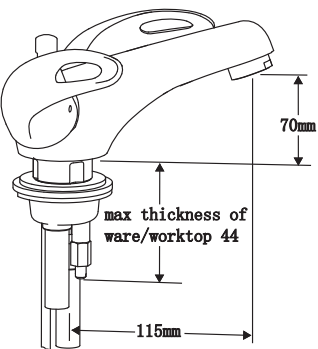
SL Mono Basin



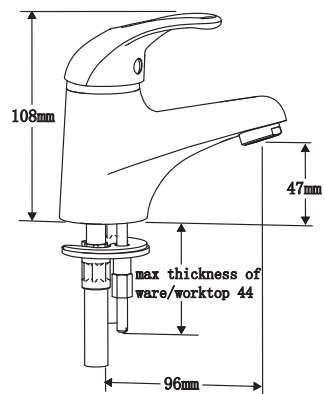
S/A Mono Sink Mixer



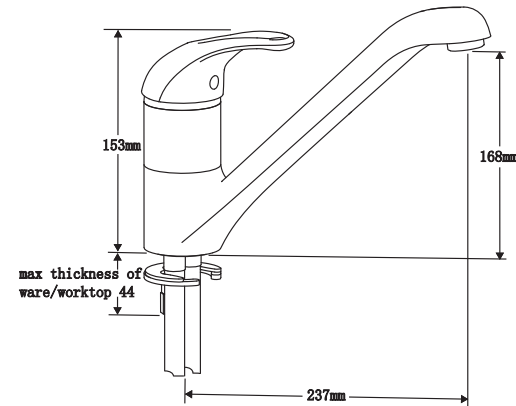
Bath Filler



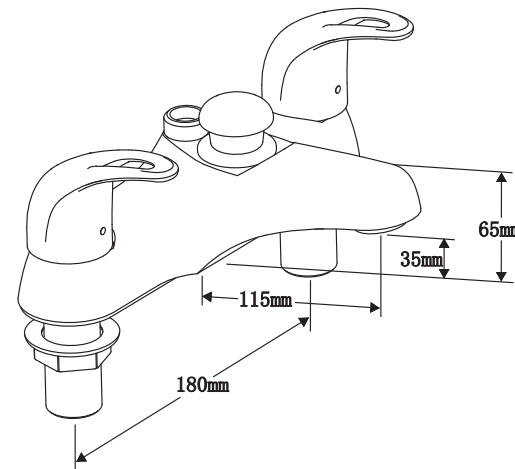
DC Mono Basin



SL Mini Mono Basin



Mono Sink Mixer



Bath Shower Mixer

Water Regulations Requirements

It is important to ensure that the water supplies to your taps and mixers are connected in accordance with the water regulations (WRAS) requirements and good plumbing practice.

It is Pegler's recommendation and good plumbing practice that the supplies of hot and cold water to the products should be at equal (balanced) pressures in order to provide a consistent flow. Supplies should be from a common source, either mains or tank fed. If supplies are not equal pressures then non return valves should be fitted (supplied).

This products has been designed to function on all types of water systems

Please Note: If a pump is to be installed to boost gravity supplies please refer to the pump manufactures instructions.

The hot and cold inlets for any of the products are hot on the left and cold on the right when viewed from the front of the fitting. It is our recommendation and good plumbing practice that a service valve also (Pegler PB300) should be installed upstream in the inlet supply lines.

Pipe Connections

IMPORTANT. Before making any inlet pipe connections all supplies **MUST** be thoroughly flushed to remove any debris. Failure to do so could result in damage or low flow from the mixing valve. It is a requirement of Byelaw 55 of the Water Fittings Byelaw Scheme that this function is undertaken before making any pipe connections to supplies.

General Installation Notes

- Care must be taken during installation to prevent any risk of damage to the product or injury to installer.
- Installation must be carried out by a qualified and competent person and in accordance with the instructions supplied.
- Installations must comply with all Local and National Water Authority Regulations, and Building/Plumbing Regulations.
- Please ensure that you have read and understood all sections of this manual before Installation.

Water Supply Pressures

Leger fittings have been designed to function under the following conditions:

- Minimum supply pressure 0.1 bar.
- Maximum supply pressure 6.0 bar.

Generous flow rates are achieved at pressures as low as 0.1 bar. At high pressures it may be necessary to reduce excessive flow rates by fitting stop or servicing valve in the supply line before the mixer or tap. These stop valves facilitate ease of maintenance should it be Necessary.

Please Note: The mono basin mixer L565 is supplied with flow straightener fitted and an alternative aerator nozzle packed separately which can be fitted at high pressures to reduce Splashing.

Installation

Pillar Taps

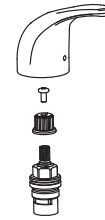
- Remove backnut from tap tail.
- Fit tap through ware ensuring anti-rotational washer is trapped in position Between tap base and ware, replace backnut and tighten.
- Thoroughly flush pipework and connect to tap. Hot should be on the left and cold On the right when viewing pipework from the front.

Mon Sink / Side Action Mono Sink Mixer

- i) Screw inlet tails into body and tighten up ensuring washer seal is firmly in place to prevent any leaks.
- Please note: For standard mono sink go to point (iv)
- ii) For Side Action Mono Sink Mixer – Locate the handle from the box and remove the indice (plastic bung) from under the lever part of the handle. Locate the handle onto the square spindle of the exposed cartridge, then using the Allen Key provided screw the grub screw (packaged with the clamping kit) into the handle and tighten onto the cartridge.
- Please note: The handle should be positioned pointing towards you (when viewing the tap from the front) for its natural off position!
- iii) Once in position relocate the indice (plastic bung) into the hole under the lever, ensuring the red and blue printed on the indice is the correct way around.
 - iv) Screw in the clamping stud into the body and position rubber seal under the base of the mixer, then position the mixer into the ware in desired position ensuring lever movement is not obstructed.
 - v) Please note: Ensure free movement of spout is adequate before clamping in position.
 - vi) To tighten the mixer to the ware, Firstly, place clamping plate rubber then the steel clamping Plate onto the stud, then secure by screwing tight the clamping nut. Re check the mixer position above the ware and ensure the spout still rotates freely.
 - vii) Connect inlets to supplies, (Fit non return valves if system is imbalanced)

To fit handles (Where applicable)

- To fit handle place snap fit connector
 (A) onto spline of headwork
 (B) and screw down firmly using screw provided
 (C). Place handle
 (D) over connector and push firmly until it snaps home.

**Bath Filler/ Bath Shower Mixer**

- i) Remove backnuts from inlet tails and fit tails through tap holes of bath ensuring base rubber is trapped between bath and fitting. Replace and tighten backnuts from beneath bath.
- ii) Thoroughly flush pipework and connect tap to the supplies ensuring hot is on the left and cold on the right when viewing the mixer from the front.
- iii) Fit shower hose and kit to the bath mixer.
- iv) For all brassware supplied without handles, see separate handles instructions.
- v) For servicing or handle realignment the brassware supplied will be:
 - Snap on (push on –pull off)
 - Fixed with a locating screw
 - Fixed handle and spindle
- vi) Fixing the kit to Bath Shower mixers
 - Mark the holes and drill with 6mm bore
 - Insert plugs and fasten screw
 - Click on the shell and connect the shower hose

Monobloc Basin Mixer

- Pegler Basin mixers are supplied with separate inlet tails. M12 flexible tails 12" long
- i) screw inlet tails into body and tighten up ensuring 'O' ring seal is firmly in place and leak proof, unless pre fitted securing studs to be fitted and tighten
 - ii) Locate seal under flange (or base of monobloc).
 - iii) Place fittings through hole in ware. Place washer over inlet tails and position on underside of ware. Place clamping plate on threaded stud/s ensuring that stud is positioned in the slot in the clamping plate and that the inlet tails are positioned in the cut out. Place fixing nut onto threaded studs and loosely tighten firmly up the base of Ware / worktop.
 - iv) Insert click waste
 - v) Ensure pipework is thoroughly flushed to remove debris before connecting to the fitting, Connect to the water supplies.
 - i) Ensure that the O ring seals are fitted correctly in their grooves screw the tails into the body.

Care & Maintenance

To maintain the surface finishes, simply wipe occasionally with a mild detergent on a soft damp cloth. Dry using a soft cloth, never use abrasive cleansers or chemical household cleaners, and avoid contact with concentrated bleach. Pegler products are manufactured to the highest of standards and should require little or no maintenance. In the unlikely event of any spare part requirements, please contact your nearest stockist or the Pegler Sales Office, St Catherine' s Avenue, Doncaster. DN4 8DF, Telephone 01302 368581.

To maintain the surface finishes, simply wipe occasionally with a mild detergent on soft damp cloth. Dry using soft cloth, never use abrasive cleaners or chemical household cleaners, avoid contact with concentrated bleach.

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Customer Reference Data

Date of Purchase.....

Supplier.....

Supplier Tel. No.....

Model Type.....

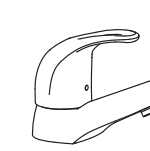
Serial No.....

Installer.....

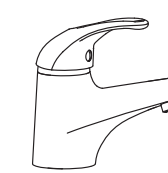
Installer Contact Details.....

**Your Guide to the installation, Care and maintenance of**

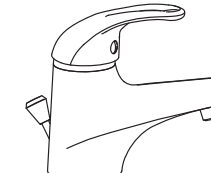
Izzi



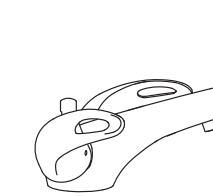
1/2"Basin Taps
 3/4"Basin Taps



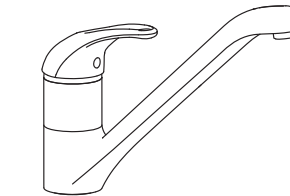
SL Mini Mono Basin



SL Mono Basin



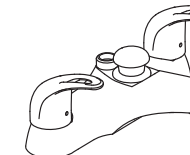
DC Mono Basin



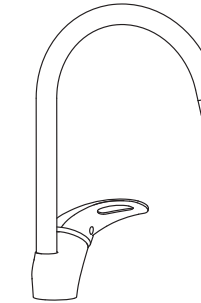
Mono Sink Mixer



Bath Filler



Deck Bath Shower Mixer



S/A Mono Sink Mixer

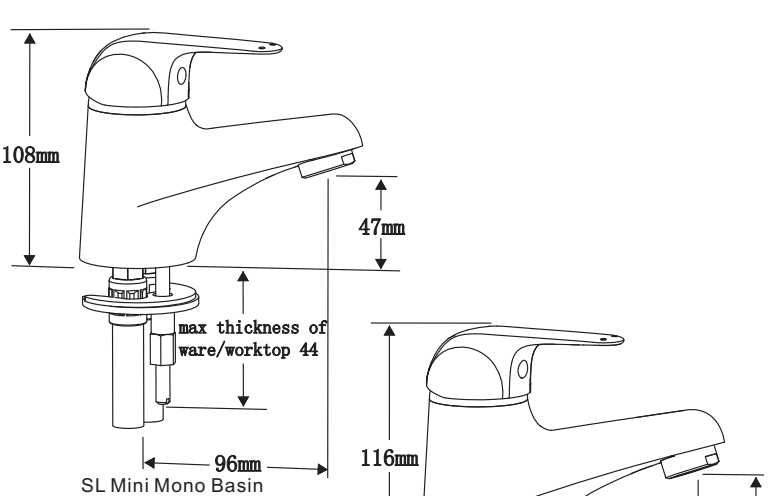


Pegler Yorkshire

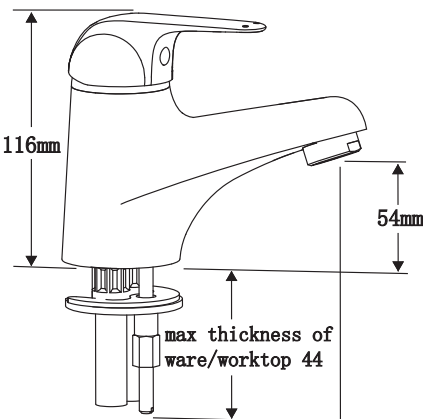
Pegler Limited, St Catherine' s Avenue, Doncaster DN4 8DF
 Telephone 01302 560560, Fax 01302 560109



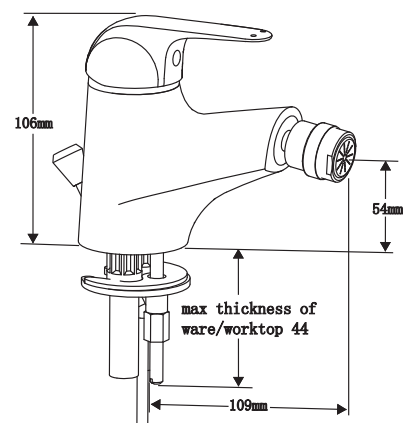
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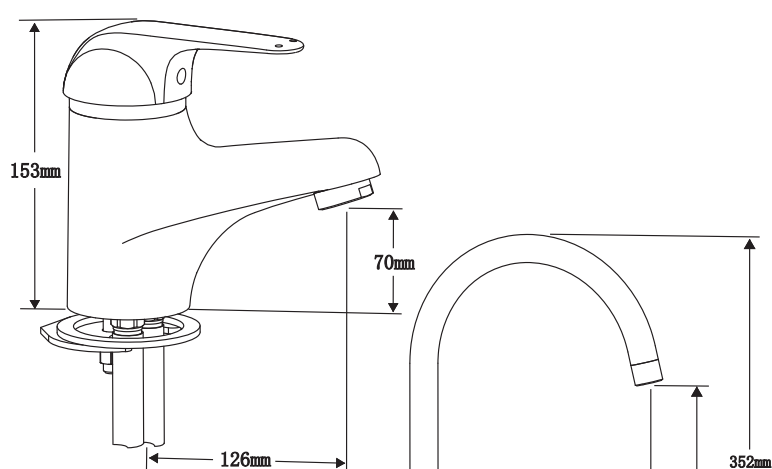
SL Mini Mono Basin



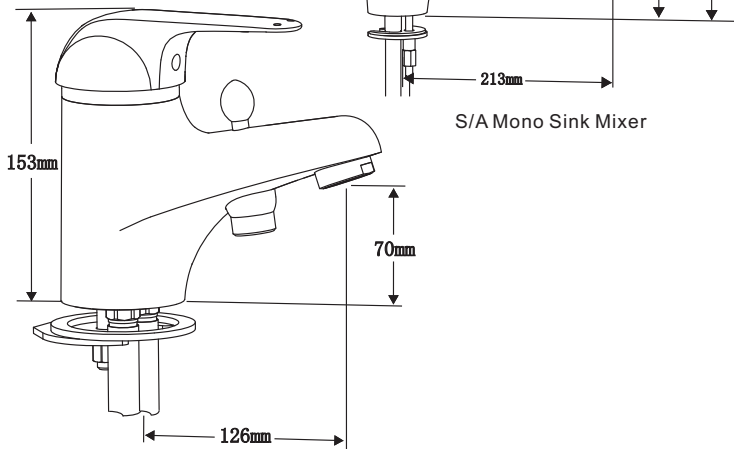
SL Mono Basin



SL Mono Bidet Mixer



SL Mono Bath Filler



S/A Mono Sink Mixer

SL Mono Bath Shower Mixer

Water Regulations Requirements

It is important to ensure that the water supplies to your taps and mixers are connected in accordance with the water regulations (WRAS) requirements and good plumbing practice.

It is Pegler's recommendation and good plumbing practice that the supplies of hot and cold water to the products should be at equal (balanced) pressures in order to provide a consistent flow. Supplies should be from a common source, either mains or tank fed. If supplies are not equal pressures then non return valves should be fitted (supplied).

This products has been designed to function on all types of water systems

Please Note: If a pump is to be installed to boost gravity supplies please refer to the pump manufactures instructions.

The hot and cold inlets for any of the products are hot on the left and cold on the right when viewed from the front of the fitting. It is our recommendation and good plumbing practice that a service valve also (Pegler PB300) should be installed upstream in the inlet supply lines.

Pipe Connections

IMPORTANT. Before making any inlet pipe connections all supplies **MUST** be thoroughly flushed to remove any debris. Failure to do so could result in damage or low flow from the mixing valve. It is a requirement of Byelaw 55 of the Water Fittings Byelaw Scheme that this function is undertaken before making any pipe connections to supplies.

General Installation Notes

- Care must be taken during installation to prevent any risk of damage to the product or Injury to installer.
- Installation must be carried out by a qualified and competent person and in accordance with the instructions supplied.
- Installations must comply with all Local and National Water Authority Regulations, and Building/Plumbing Regulations.
- Please ensure that you have read and understood all sections of this manual before Installation.

Water Supply Pressures

Leger fittings have been designed to function under the following conditions:

- Minimum supply pressure 0.1 bar.
- Maximum supply pressure 6.0 bar.

Generous flow rates are achieved at pressures as low as 0.1 bar. At high pressures it may be necessary to reduce excessive flow rates by fitting stop or servicing valve in the supply line before the mixer or tap. These stop valves facilitate ease of maintenance should it be Necessary.

Please Note: The mono basin mixer L565 is supplied with flow straightener fitted and an alternative aerator nozzle packed separately which can be fitted at high pressures to reduce Splashing.

Installation

Side Action Mono Sink Mixer

- Screw inlet tails into body and tighten up ensuring washer seal is firmly in place to prevent any leaks.
- Please note: For standard mono sink go to point (iv)
- For Side Action Mono Sink Mixer – Locate the handle from the box and remove the indice (plastic bung) from under the lever part of the handle. Locate the handle onto the square spindle of the exposed cartridge, then using the Allen Key provided screw the grub screw (packaged with the clamping kit) into the handle and tighten onto the cartridge.
- Please note: The handle should be positioned pointing towards you (when viewing the tap from the front) for its natural off position!
- Once in position relocate the indice (plastic bung) into the hole under the lever, ensuring the red and blue printed on the indice is the correct way around.
 - Screw in the clamping stud into the body and position rubber seal under the base of the mixer, then position the mixer into the ware in desired position ensuring lever movement is not obstructed.
 - Please note: Ensure free movement of spout is adequate before clamping in position.
 - To tighten the mixer to the ware, Firstly, place clamping plate rubber then the steel clamping Plate onto the stud, then secure by screwing tight the clamping nut. Re check the mixer position above the ware and ensure the spout still rotates freely.
 - Connect inlets to supplies, (Fit non return valves if system is imbalanced)

SL Bath Filler and Bath Shower Mixer without Adaptor

- Ensure that the O ring seals are fitted correctly in their grooves screw the tails into the body.
- Screw stud into body.
- Place O ring into recess in the base of body and put body onto ware.
- Place clamping plate and washer onto clamping stud with washer towards the ware.
- Attach clamping nut to the stud and tighten up to ware. Attach tails to the water supply and check for leaks.
- Fixing the kit to Bath Shower mixers
 - Mark the holes and drill with 6mm bore
 - Insert plugs and fasten screw
 - Click on the shell and connect the shower hose

Monobloc Basin/Bidet Mixer

- Pegler Basin mixers are supplied with separate inlet tails. M12 flexible tails 12" long
- screw inlet tails into body and tighten up ensuring 'O' ring seal is firmly in place and leak proof, unless pre fitted securing studs to be fitted and tighten
 - Locate seal under flange (or base of monobloc).
 - Place fittings through hole in ware. Place washer over inlet tails and position on underside of ware. Place clamping plate on threaded stud/s ensuring that stud is positioned in the slot in the clamping plate and that the inlet tails are positioned in the cut out. Place fixing nut onto threaded studs and loosely tighten firmly up the base of Ware / worktop.
 - Insert click waste
 - Ensure pipework is thoroughly flushed to remove debris before connecting to the fitting, Connect to the water supplies.
 - Ensure that the O ring seals are fitted correctly in their grooves screw the tails into the body.

Care & Maintenance
 To maintain the surface finishes, simply wipe occasionally with a mild detergent on a soft damp cloth. Dry using a soft cloth, never use abrasive cleansers or chemical household cleaners, and avoid contact with concentrated bleach. Applause products are manufactured to the highest of standards and should require little or no maintenance. In the unlikely event of any spare part requirements, please contact your nearest stockist or the Pegler Sales Office, St Catherine' s Avenue, Doncaster. DN4 8DF, Telephone 01302 368581.

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 Model Type.....
 Serial No.....
 Installer.....
 Installer Contact Details.....

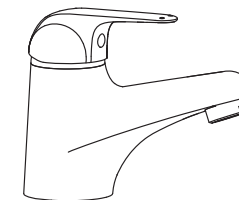


Pegler Yorkshire

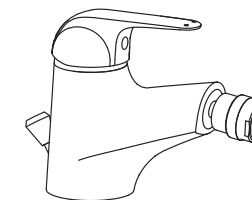
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Your Guide to the Installation, Care and maintenance of

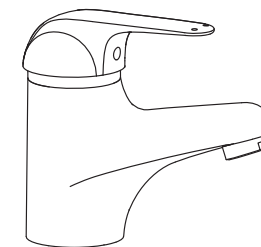
Loko



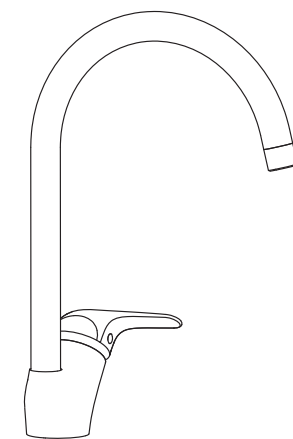
SL Mini Mono Basin
 SL Mono Basin



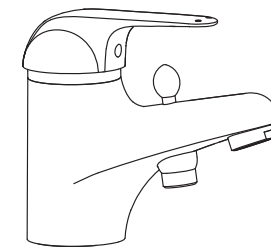
SL Mono Bidet Mixer



SL Mono Bath Filler



S/A Mono Sink Mixer



SL Mono Bath Shower Mixer



Pegler Yorkshire

Pegler Limited, St Catherine' s Avenue, Doncaster DN4 8DF
 Telephone 01302 560560, Fax 01302 560109

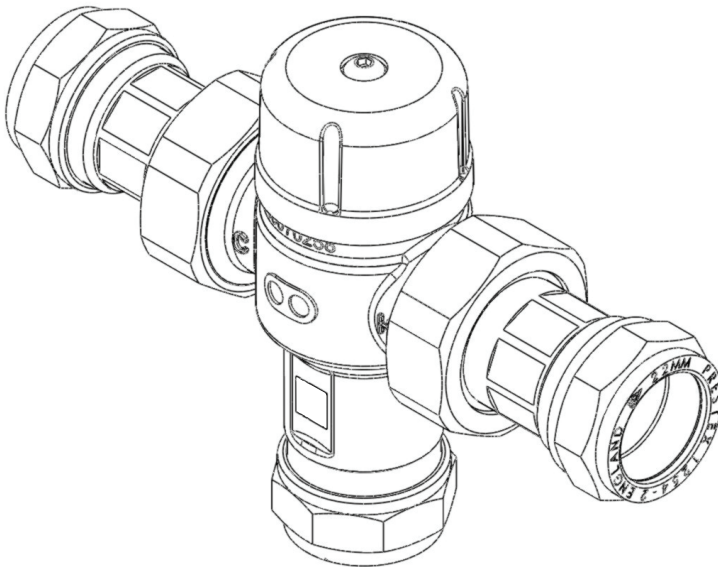
PRESTEX

DOMESTIC VALVE SOLUTIONS

Installation Instructions and User Guide

15mm & 22mm
In-Line Thermostatic Mixing Valve-TMV2

Model P404



It is important that these guidance notes are read and fully understood prior to product installation



IMPORTANT INTRODUCTION NOTES

The valves covered by these instructions have been tested and certified as being in compliance with BS EN 1111:1999 and BS EN 1287:1999.

Valves operating outside the requirements of these standards are not covered by the TMV2 Scheme and are not guaranteed to operate as Type 2 valves.

The installer should be aware of his duty of care and responsibility in ensuring that compliance with regulations is maintained. The valve is not guaranteed to function correctly to the TMV2 specification unless it is installed and used in accordance with these instructions.

Regular servicing is essential to ensure continued safe operation of this thermostatic mixing valve. The recommended service interval is no greater than 12 months.

This Prestex Model P404 in-line thermostatic mixing valve, available in 15mm and 22mm sizes, is intended to be fitted into applications where the reliable control of hot water temperature is necessary to prevent scalding. In the event of cold water supply failure, the product will shut off the hot water supply.

Water Regulations

The Prestex Model P404 mixing valve must be installed in accordance with the regulations of the local water company and the Water Supply (Water Fittings) Regulations 1999.

Approvals

This product is certified under the BuildCert TMV2 scheme and has been independently tested by an approved testing laboratory WRc-NSF and is a Water Regulations Advisory Scheme (WRAS) approved product and listed in the Water Fittings and Materials Directory.

Installation

Separate isolation valves must be installed on the hot and cold water inlet supplies.

To ensure proper performance of the thermostatic mixing valve, the isolating valves should preferably be full bore and always be fully open during operation.

The mixing valve is supplied with filter elements but it is advisable to additionally install Y-strainers on the hot and cold water supplies. The isolating valves and strainers should be installed as close as practicable to the location of the mixing valve and should always be in an accessible location.

Before installation, the hot and cold water supply systems must be thoroughly flushed to remove any dirt/debris that may have accumulated. Failure to do so may adversely affect the performance of the mixing valve.

CONDITIONS OF NORMAL USE

Table 1

Operating Range	High Pressure	Low Pressure
Maximum static pressure - bar	10	10
Hot & cold flow pressure - bar	1.0 to 5	0.1 to 1
Hot supply temperature - °C	55 to 65	55 to 65
Cold supply temperature - °C	≤ 25	≤ 25

Minimum hot inlet to mixed outlet temperature differential = 10°C

Note: Valves operating outside these conditions can not be guaranteed by the Scheme to operate as Type 2 valves.

The highest flow rates will be achieved under balanced pressure conditions, but the pressure at the valve inlets must be within a ratio of 5:1 under flow conditions and the size and layout of pipework and fittings must take this into account.

FITTING

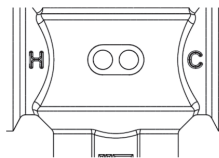
Before installation, the system operating conditions of inlet pressures, hot water temperature and hot and cold water flow rates should be determined and confirmed to be within the expected conditions of normal use shown in the table below.

	BS1287	BSEN1111
Maximum static pressure (bar)	10.0	10.0
Supply pressure hot and cold (bar)	0.1 – 1.0	1.0 – 5.0
Hot supply °C	55 - 65	55 - 65
Cold supply °C	Maximum 25	Maximum 25
Mixed water temperature	Maximum 46	Maximum 46

Valves must operate in either a high pressure setting or a low pressure setting. These valves are not capable of operation with, for instance hot water supply in one pressure range and cold water supply in the other pressure range. In these conditions it is necessary to either boost one pressure or reduce the other so that both supplies are within a common pressure range. If your water supply cannot meet these conditions then the valve cannot be guaranteed to operate as a Type 2 valve.

Operating pressures above 5.0 Bar will require the installation of a pressure reducing valve. Correct location of the mixing valve is important to ensure that it is accessible for commissioning and servicing.

- The valve body is clearly marked with '**C**' for **Cold** and a blue indicator and '**H**' for **Hot** and a red indicator.



The valve must be correctly connected to the respective supplies

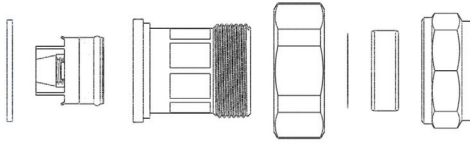
- The use of sealing compounds must be avoided since they may intrude into the water supply and impair the valve performance.
- The valve must be so installed that it is readily accessible for commissioning and maintenance when being installed in accordance with TMV2.

- The valve must be installed with isolation valves on both the hot and cold water systems as close as possible to the valve; so as to allow the valve to be commissioned and tested correctly.
- The valve is supplied with integral strainers on the hot and cold water supplies therefore inline strainers should not be required.
- The valve is fitted with integral "listed" non-return valve cartridges which command the water supply, therefore the thermostatic valve is protected against cross-flow due to unbalanced line pressures as required by the Water Supply (Water Fittings) Regulations 1999.

Assembly Procedure

- Unpack the main valve assembly, remove the three plastic protection caps and check that the bores are free of debris and the end sealing faces are clean.
- Unpack the two tailpieces and confirm they are complete with union nuts and compression nuts and olives.
- Locate the sealing gaskets, insert them into the union nuts against the faces of the tailpieces and screw the union nuts onto the valve until a tight seal has been made.
- Remove the compression nuts and olives from the tailpieces. Locate the inlet filter screens and insert them into the bore of the tailpieces up to the shoulder.
- Assemble the valve to the pipework and ensure the hot and cold water pipes have full penetration into the tailpiece.
- Tighten the compression nuts ensuring that the end of the pipe remains in contact with the filter element.

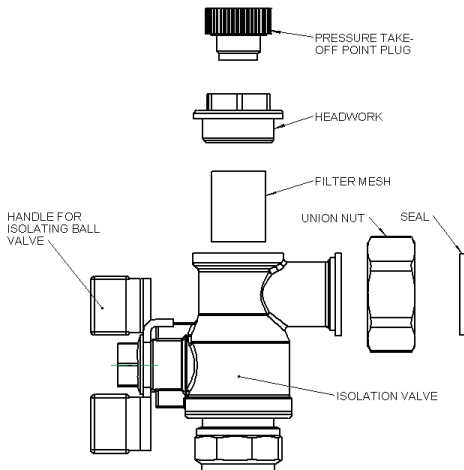
Exploded view of tailpiece assembly



The Prestex Model P404UA mixing valve is optionally provided with angled assemblies in lieu of the tailpiece arrangement shown above. This allows the connections of the hot and cold water supplies to be parallel to the mixed water outlet for ease of piping layouts. The assemblies comprise an integral full bore ball valve and in-line strainer in an angled housing.

When this arrangement is used, the requirements for isolation valves and Y-strainers previously mentioned are regarded as fulfilled.

Exploded view of angled valve assembly



APPLICATION

The Prestex Model P404 thermostatic mixing valve has been independently tested by WRC-NSF against the requirements of BS EN 1287 (Low Pressure-LP) and BS EN 1111 (High Pressure-HP) and certified as complying with the requirements of the TMV2 Scheme and is suitable for use in the designations shown in the table below.

Valves approved for designation for use 'HP' only:- If a water supply is fed by gravity then the supply pressure should be verified to ensure the conditions of use are appropriate for the valve.

Application	Pressure	Maximum set mixed water temperature
Shower	HP and LP	41°C
Wash basin	HP and LP	41°C
Bidet	HP and LP	38°C
Bath (Tub)*	HP	44°C

The above temperatures are recommended by the Thermostatic Mixing Valve (manufacturers) Association as relevant settings for the varying applications shown. This is the maximum commissioning temperature but valves may exceed this by 2°C in use.

The range of available temperature adjustment is 35°C to 48°C but 46°C is the maximum recommended mixed water temperature from a bath tap. The maximum temperature takes account of the allowable temperature tolerances inherent in thermostatic mixing valves and temperature losses in metal baths. **46°C is not a safe bathing temperature for adults or children.**

The British Burns Association recommends 37°C to 37.5°C as a comfortable bathing temperature for children. In premises covered by the Care Standards Act 2000, the maximum mixed water outlet temperature is 43°C.

COMMISSIONING

The valve must be commissioned under normal site system conditions and after establishing supply conditions with the hot and cold water supplies open, leave the system running to allow temperatures and pressures to stabilise and be checked.

Prior to commencing commissioning, the following checks should be carried out.

- The designation of the thermostatic mixing valve matches the application.
- The supply pressures and temperatures are within the operating range of the valve.
- Isolating valves and strainers are provided.

If all these conditions are met, proceed to set the temperature as described below.

The Prestex thermostatic mixing valve is supplied factory set at 43°C but the valve may be simply adjusted after installation.

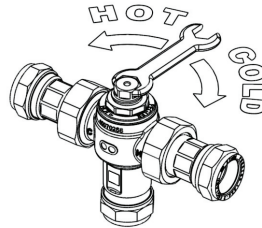
The mixed water temperature at the terminal fitting must never exceed 46°C

When the valve has been installed with the correct conditions of use it is advised that the valve is subjected to exercise prior to the commissioning at the application temperature. Operate the valve from full cold to full hot at least three times.

With the valve at the full cold position bring the valve to the correct application temperature by turning the spanner clockwise. If the valve overshoots this temperature, return the valve to the full cold condition, and reset it to the correct temperature $\pm 0.2^\circ\text{C}$. Do not set a valve on a lowered temperature as this will not provide consistent operation.

When the valve is set to the required temperature for the application carry out 5 cold water isolation tests to further exercise the valve.

- Set the mixed water temperature to the required value. It is advisable to use a calibrated digital thermometer for checking the inlet and outlet temperatures.
- Remove the plastic protective cap on top of the valve with a suitable tool.



- using a close fitting spanner, reduce the mixed outlet temperature by turning clockwise.
- increase the mixed water outlet temperature by turning counterclockwise.

- Measure and record the temperature of the hot and cold water supplies at the inlets to the valve.
- Measure and record the temperature of the water discharging from the valve at the greatest draw-off flow rate.
- In the absence of other temperatures being specified those detailed in Table 2 are the desired settings

Once the required mixed outlet temperature has been achieved, isolate the cold water supply and monitor and record the mixed water temperature including the maximum and final temperatures achieved. The mixed water temperature should never exceed 46°C.

Re-fit the cap.

Record all the equipment used during commissioning.

MAINTENANCE

The Prestex Model P404 thermostatic mixing valve will provide satisfactory service and a high level of protection, provided it is maintained and subjected to **In-Service Testing**.

Approximately 6-8 weeks after commissioning, the following tests should be undertaken.

- Temperature of the hot and cold water supplies - **RECORD**
- Temperature of the mixed water temperature at the greatest draw off flow rate – **RECORD**

If the mixed water temperature has significantly changed from that measured at installation (e.g. > 1°C), **RECORD** the change and before making any adjustments to the valve confirm that:-

- Strainer elements in the hot and cold water supplies are clean and undamaged.
- Non-return valves are clean and operating correctly.
- Isolation valves are operating correctly and are set in the fully open position.

If the mixed water temperature is acceptable, the following additional observations should be made:-

Isolate the cold water supply and **RECORD** the maximum temperature achieved. After 5 seconds, if water is still flowing **RECORD** the final temperature.

- If there is no significant change to the set outlet temperature ($\pm 2^\circ\text{C}$ or less deviation from the original setting) and the fail safe shut-off is functioning, then the valve is working correctly and no further service work is required.
- If the maximum mixed water temperature exceeds the previous test results by more than 2°C then the need for service work on the valve is indicated.

- The equipment used in these In-Service Tests should be **RECORDED** and should preferably be the same as that used at installation.

Note:

If there is a residual flow during the commissioning or the annual verification (cold water supply isolation test) then this is acceptable providing the temperature of the water seeping from the valve is no more than 2°C above the designated maximum mixed water outlet temperature setting of the valve. Any higher temperatures should occur only briefly. Temperature readings should be taken at the normal flow rate after allowing the system to stabilise. The sensing part of the thermometer probe must be fully submerged in the water that is to be tested. Any TMV that has been adjusted or serviced must be re-commissioned and re-tested in accordance with the manufacturer's instructions.

In the absence of any other instruction or guidance, it is recommended that In-Service Tests are carried out once every 12 months as a minimum. If the temperature is outside of the expected range it will be necessary to remove and clean the valve in accordance with the following instructions.

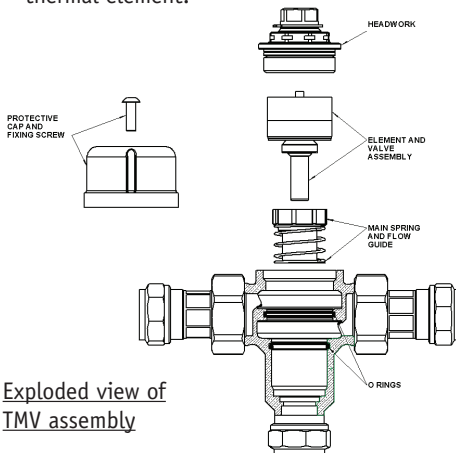
TMV Cleaning and Servicing Instructions

Most domestic water supplies contain calcium which will separate out when the water is heated in a system. The degree and speed of scaling may vary depending on factors such as water flow rates, system design, the hardness of the water and the temperature to which the water is heated.

Deposits of scale may over time form in the valve, particularly at the hot inlet. The formation of the scale may adversely affect the performance of the valve which will be detected during the in-service testing. If this occurs it will be necessary to remove the valve for de-scaling and servicing.

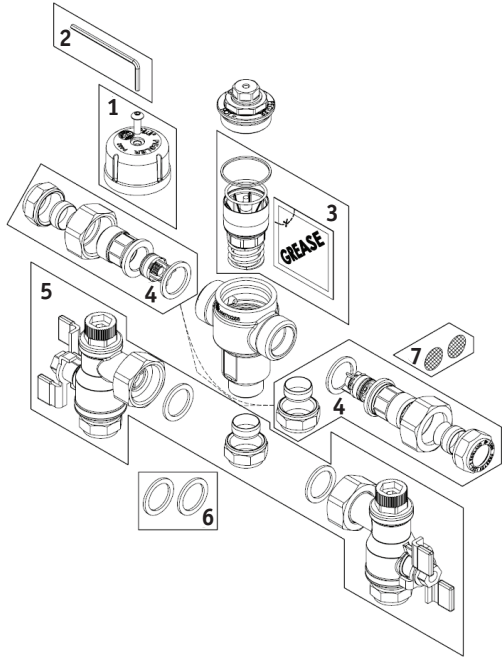
TO SERVICE THE VALVE:

- Isolate the hot and cold supply.
- Remove the valve to a clean working area.
- Remove the protective cap.
- Unscrew the headwork of the valve.
- Carefully remove the element and valve assembly and put to one side.
- Remove the main spring and flow guide and carefully put to one side.
- Inspect the components for contamination or damage.
- Clean or replace as necessary
- Remove the two o rings
- Clean the valve body and headwork using a propriety de-scaler
- Thoroughly rinse the body and headwork in clean water.
- Carefully fit new o rings from the service kit taking care to ensure they are not damaged and are correctly located.
- Lubricate the o rings with the lubricant provided.
- Re-fit the flow guide and spring lubricating the flow guide around the greatest diameter with the lubricant provided
- Lubricate the shuttle valve with the lubricant provided
- Re-fit the shuttle valve and element assembly.
- Re-fit the headwork ensuring correct tightening
- Re-fit the assembled valve and perform the commissioning sequence.
- If after cleaning the valve, and replacing the o ring seals, the valve does not function correctly, it may be necessary to replace the thermal element.



SPARES

In order to ensure that the Prestex Model P404 thermostatic mixing valve continues to provide satisfactory service, only GENUINE Pegler spare parts must be used.



	Spare part order code	Description
1	854453	Protective cap complete with screw
2	854447	Hexagon key
3	854454	Service kit
4	854449 (15mm) 854450 (22mm)	Tailpiece Strainer kit
5	854451 (15mm) 854452 (22mm)	Angle valve strainer kit
6	854456 (15mm), 854457 (22mm)	Sealing washer
7	854455 (15mm), 817012 (22mm)	Wafer Strainer



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