

Cleaning

Your product has a high quality finish and should be treated with care to preserve the visible surfaces.

Never use abrasives or abrasive cleaning agents to clean this product. Clean regularly with contamination free warm soapy water and a damp soft cloth. Do not use products containing chlorine bleach or hydrochloric acid as these can damage the product. Always rinse the product thoroughly after cleaning to remove cleaning products that can damage the shower.

Warranty

Your product comes with a 5 year guarantee, This includes 2 years parts and labour followed by a further 3 years parts only.

Satinjet and Aurajet handsets come with a Lifetime Warranty

Proof of purchase will be required.

The guarantee does not cover faults or damage caused by incorrect installation and/or maintenance, ordinary wear and tear, water composition etc. including:

Supply pipes reversed, Incorrect pressure or temperature, *Incorrect use, Foreign bodies and/or scale due to the water composition, Incorrect cleaning.

*Please see www.methven.com for full terms and conditions of warranty.

We have a policy of continuous improvement and reserve the right to change specifications without notice.

METHVEN UK LIMITED
METHVEN EXPERIENCE CENTRE
3/3A STONE CROSS COURT
YEW TREE WAY
GOLBORNE
WARRINGTON
WA3 3JD
UNITED KINGDOM
P16

TEL: 0800 195 1602
FAX: +44 (0) 1942 680 190
E: sales@uk.methven.com
methven.com

INST-SJKDSBB

Kiri MK2 Bar Shower with Diverter - Brushed Brass

SJKDSBB

Installation Instructions & Maintenance Guide

Technical Specification

Supply:

Suitable For High Pressure Systems

Working Pressure:

0.5bar - 5.0bar

Operating Temperature:

Hot: Max 65°C

Cold: Min 5°C

Inlet Connections:

1/2" BSP

Cartridge/Valve Type:

Thermostatic

Includes:

Satinjet Kiri MK2 Handset
- water saving handset
operating at 8lpm



Lifetime warranty
on handset only



METHVEN
EST 1886

CONTENTS

- General Safety Information
- Line Drawing
- General Characteristics
- Operating Specifications
- Recommended Outlet Temperature
- Installation
- Commissioning
- Calibration
- In Service Testing
- Filter Washer Cleaning
- Cleaning
- Warranty

Depending on the results of the above tests, several possibilities exist:

- a) If no significant change (e.g. <1) in mixed water temperatures are recorded between commissioning and 6-8 week testing, or between commissioning and 12-15 weeks testing the next in-service test can be deferred to 24-28 weeks after commissioning.
- b) If small changes (e.g. 1-2) in mixed water temperatures are recorded in only one of these periods, necessitating adjustment of the mixed water temperature, then the next in-service test can be deferred to 24-28 weeks after commissioning.
- c) If small changes (e.g. 1-2) in mixed water temperatures are recorded in both of these periods, necessitating adjustment of the mixed water temperature, then the next in-service test can be carried out at 18-21 weeks after commissioning.
- d) If significant changes (e.g. >2) in mixed water temperatures are recorded in either of these periods, necessitating service work, then the next in-service test should be carried out at 18-21 weeks after commissioning.

The general principle to be observed after the first 2 or 3 in-service tests is that the intervals of future tests should be set to those which previous tests have shown can be achieved with no more than a small change in mixed water temperature.

FILTER WASHER CLEANING

It is advised that this should be carried out by a qualified person

- 1 Isolate both hot and cold mains supplies
- 2 Undo the nuts on both hot and cold inlet unions and remove the filter washers.
- 3 Wash the filter washers thoroughly under running water. Use a suitable brush to remove all debris.
- 4 Refit into hot and cold inlets and tighten nuts
- 5 Turn on hot and cold mains supplies and check for leaks

- c) Record the temperature of the mixed water at a smaller draw-off rate, which shall be measured.

If the mixed water temperature has changed significantly from the previous test result (e.g.>1) record the change and before re-adjusting the mixed water temperature check:

- a) That any in-line or integral strainer are clean
- b) Any in-line or integral check valves or other anti-back siphon age devices are in good working order
- c) Any isolating valves are fully open

With an acceptable mixed temperature, complete the following procedure:

- a) Record the temperature of the hot and cold water supplies
- b) Record the temperature of the mixed water at the largest draw-off flow rate
- c) Record the temperature of the mixed water at the smaller draw-off flow rate, which shall be measured
- d) Isolate the cold water supply to the mixing valve and monitor the mixed water temperature.
- e) Record the maximum temperature achieved as a result of (d) and the final stabilised temperature
- f) Record the equipment, thermometer etc. used for the measurements

If at step (e) the final mixed water temperature is greater than the valves in the table and/or the maximum temperature exceeds the corresponding valve from the previous results by more than about 2, the need for service work is indicated.

NOTE: In-service tests should be carried out with a frequency, which identifies a need for service work before an unsafe water temperature can result. In the absence of any other instruction or guidance, the procedure described in Annex F may be used

Annex F (informative)

General

In the absence of any other instruction or guidance on the means of determining the appropriate frequency of in-service testing, the following procedure may be used:

- a) 6to8 weeks commissioning carry out the tests detailed in in-service tests"
- b) 12 to 15 weeks after commissioning carry out the tests detailed in "in-service tests"

PLEASE RETAIN THIS DOCUMENT FOR FUTURE REFERENCE

IMPORTANT: Please read all of the instructions before installation.

Please keep these instructions for future reference and request of replacement parts

General Safety Information

Methven recommends this product is installed by a competent person in compliance with all relevant regional regulations.

Remove all packaging and check the components for damage before starting installation.

This product **must** not be modified in any way as this will invalidate the guarantee. It is the responsibility of the installer to ensure a waterproof seal is achieved, after installation all connections must be checked for leaks.

All outlets used primarily for personal hygiene shall deliver water at a safe temperature as per regional regulations.

Troubleshooting

FAULT	POSSIBLE CAUSE
Shower only runs out hot or cold after installation	1.Hot and Cold supplies have been plumbed the wrong way around; 2.Faulty Thermostat
Shower does not run hot enough	1.Check hot water supply temperature; 2.Blockage on the hot supply.
Low or no flow	1.Possible blockage in the system; 2. operating conditions are incorrect; 3.Valve shut off has been acclimated due to a pressure drop in either the cold or hot supplies.
Leaking when in the position	1.Debris in flow control cartridge; 2.Faulty flow control cartridge
Fluctuating flow	1.Dynamic inlet pressure are not transmitted; 2.Faulty thermostatic cartridge
Hot water in cold supply or vice versa	1.Check and clean non-return valves

Notes

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. Temperature readings should be taken at the normal flow rate after allowing for 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 retested in accordance with the manufacturers' instructions

Calibration

Failure to regularly maintain the Thermostatic mixing valve may lead to poor flow, fluctuations in temperature and in some cases complete failure.

The mixer has been set in the factory under balanced pressures at 38°C. Where conditions are different from the above, the temperature of the mixed water may vary from original setting. You can adjust the calibration of the mixer to suit individual requirements.

- 1 Turn temperature handle to fully hot.
- 2 Remove the handle cap and the screw and pull the handle from valve Turn the spindle on the thermostatic cartridge until the desired temperature is reached. (Always maintain the 10° C difference between supply and mixed).
- 3
- 4 Once the temperature is reached, replace the handle so that the stop is in the maximum position, replace screw and handle cap.

Re-calibration should only be carried out when absolutely necessary.

In Service Testing

Purpose

The purpose of in-service test is to regularly monitor and record the performance of the thermostatic mixing valve. Determination in performance can indicate the need for service work on the valve and/or the water supplies.

Procedure

Using the same measuring equipment or equipment to the same specification as used in the commissioning of the valve, adjust the temperature of the mixed water in accordance with the manufacturer's instructions and the requirement of the application. Carry out the following sequence:

- a) Record the temperature of the hot and cold water supplies
- b) Record the temperature of the mixed water at the largest draw-out flow rate

Commissioning

As the installed supply conditions are likely to be different from those used in factory testing it is appropriate, at commissioning, to carry out some simple checks and tests on the thermostatic bar valve to provide a performance reference point for future verification. Check that:

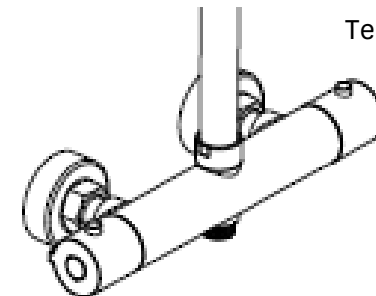
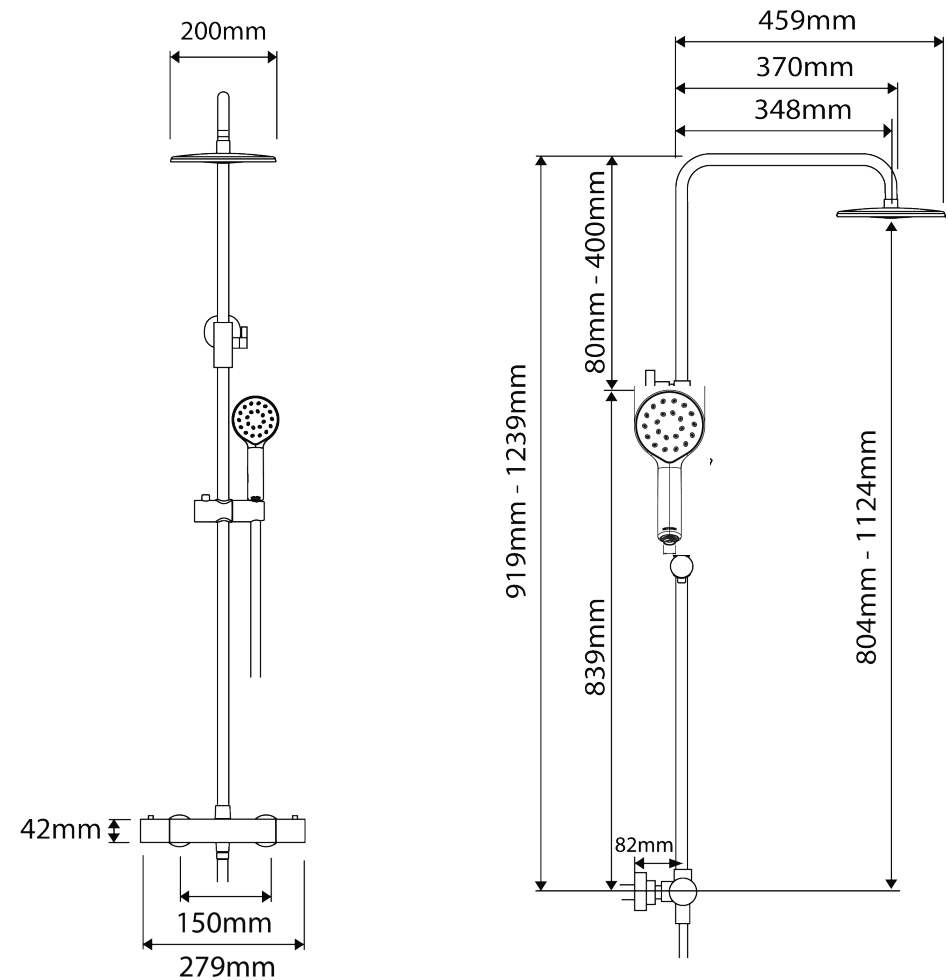
1. The designation of the thermostatic bar valve matches the intended application.
2. The supply pressures are within the thermostatic valve operating pressures.
3. The supply temperatures are within the thermostatic valve operating range. If all these conditions are met, proceed to check factory setting.
 1. Start the water flow by rotating the flow control handle to either the handset or overhead outlet
 2. Make sure the hot and cold supplies are fully open - at normal temperature and pressure and are within the requirements as stated in the operating specifications.
 3. Make sure the temperature control is at maximum temperature setting. This product has a temperature override button, to access temperature above the normal comfortable showering temperature. Press the button and continue to turn the handle.
 4. Allow the shower to run at this maximum temperature setting until the water temperature has stabilised.
 5. A final temperature check should be made and that the mixed water temperature at the terminal fitting must never exceed 46°C.
 6. When satisfied that the mixed water outlet temperature is correct, check that it is consistently repeatable by turning the mixing valve on & off, a number of times and then re-check the mixed water outlet temperature. If the mixed water outlet is stable, then proceed to undertake the cold-water isolation test.

Cold water isolation test:

The purpose of the cold-water isolation test is to ensure that the thermal performance of the TMV is adequate at the time of installation and annually thereafter. **Procedure:**

1. Operate the TMV and achieve a normal flowrate for the application and record the initial mixed water outlet temperature
2. Isolate the cold-water supply to the valve.
3. Collect the water discharged from the TMV outlet for 5 seconds.
4. Continue to collect the water discharged from the TMV outlet in a second vessel for a further period of 30 seconds.
5. Re-open (restore) the cold-water supply and after 30 seconds measure the mixed water temperature. Acceptance criteria Shower:
 - The volume collected in the first period of 5 s shall not exceed 200 ml.
 - The volume collected in the second period of 30 s shall not exceed an additional 300 ml.
 - After restoration of the cold-water supply (30 s) the mixed water outlet temperature shall not differ by more than 2°C from the initial set mixed water temperature.

Line Drawing



Temperature Control

Flow control to overhead or handset

GENERAL CHARACTERISTICS

Methven recommends this product is installed by a licensed plumber in compliance with all relevant Water Authority Regulations. If you are unsure as to what the regulations require, you can contact your Local Water Authority or the institute of Plumbers for further details.

This product is safe provided it is installed, used and maintained in accordance with these instructions and recommendations.

Do not choose a position where the thermostatic bar valve could become frozen.

Do not allow the inlet pressure or flow rates to operate outside the operating conditions

Do not connect the thermostatic bar valve to a gravity hot supply and a mains cold supply or vice versa.

Do not subject the thermostatic bar valve to a water temperature above 85°C during installation, use, maintenance or disinfection.

Do not use jointing compounds on any pipe fittings for the installation

Do not solder fittings near the unit as heat transfer along the pipework could damage the bar valve.

The layout and sizing of pipework must be such that nominally equal inlet supply pressures are achieved and the effects of other draw-offs are minimised.

The hot water pipe entry must be made to the left-hand side inlet, marked with a red dot.

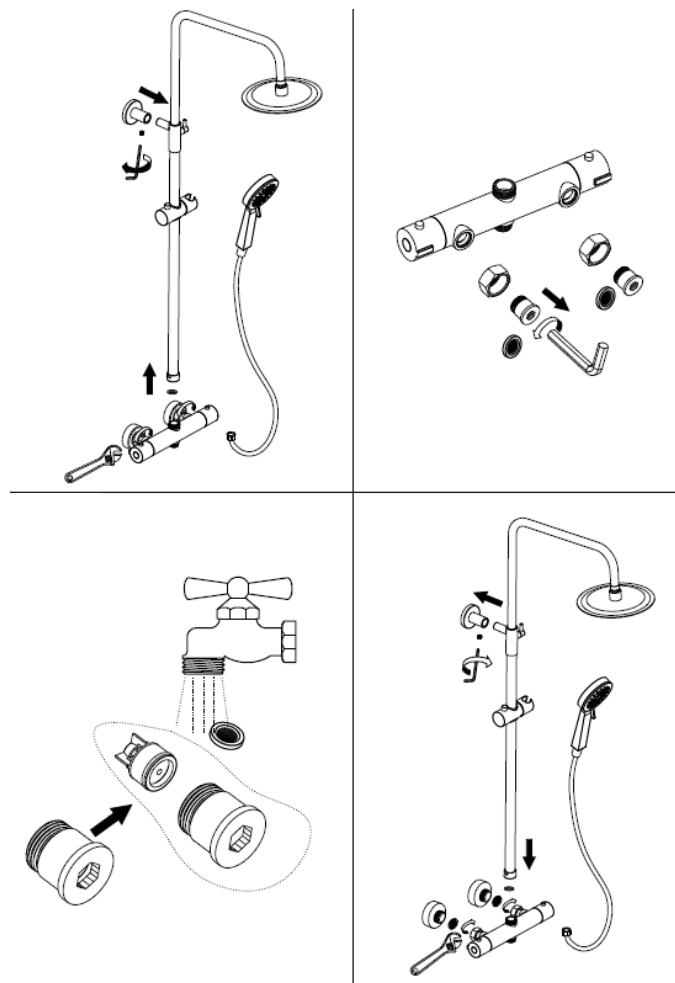
Suitable isolating valves (complying with Water Regulations and Bylaws) must be fitted on the hot and cold water supplies as close as practicable to the inlets of the thermostatic bar valve. These isolating valves must be accessible to provide an independent means of isolating the water supplies should maintenance or servicing be necessary.

Before connecting the thermostatic bar valve, water should be flushed through the system to remove all debris that might otherwise damage the valve.

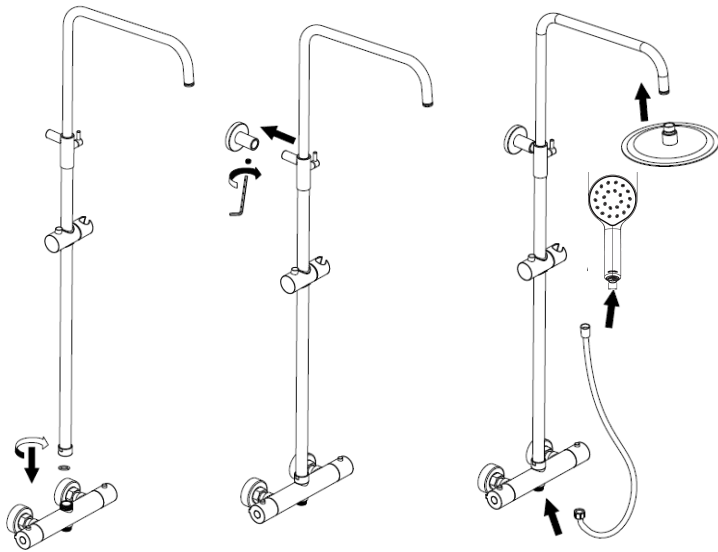
FILTER WASHER CLEANING

It is advised that this should be carried out by a qualified person

- Isolate both hot and cold mains supplies
- Undo the nuts on both hot and cold inlet unions and remove the filter washers.
- Wash the filter washers thoroughly under running water. Use a suitable brush to remove all debris.
- Refit into hot and cold inlets and tighten nuts
Turn on hot and cold mains supplies and check for leaks



INSTALLATION OF THE RAIL KIT



1. Slide the wall bracket on to the rigid riser rail. Connect the rail to the valve.
2. Mark the wall at the desired position for the wall bracket.
3. Remove the rail from the valve. Using the wall marking as a guide, secure the locking disc to the wall with the screws provided.
4. Reconnect the rail to the valve and position the wall bracket over the locking disc.
5. Secure the wall bracket to the locking disc using an allen key.
6. Insert the overhead section of the rail into the top of the rigid riser. Set the desired height of the arm by tightening the securing nut.
7. Secure the shower head to the end of the overhead rail.
8. Connect the conical end of the hose to the shower handset, ensuring the washer provided is inserted between the connection.
9. Connect the other end of the hose to the base of the bar valve, again ensuring the washer provided is inserted in the connection.
10. Place the handset into the handset holder of the shower rail kit. Ensuring the valve is in the off position, turn on both hot and cold water supplies and check for leaks.

Tip:

The height of the overhead drencher can be adjusted by loosening the securing nut on the rail join and sliding the overhead rail higher or lower to achieve the desired height.

OPERATING SPECIFICATIONS

This valve is suitable for High Pressure water heating systems provided it is installed correctly

	High Pressure
Maximum Static Pressure - Bar	10 bar
Flow Pressure, Hot & Cold - Bar	0.5 to 5
Hot Supply Temperature - °C	55°C to 65°C
Cold Supply Temperature - °C	< 25°C

NOTE: Valves operating outside these conditions cannot be guaranteed by the scheme to operate as Type 2 valves.

Operating pressure on hot and cold line should be kept as balanced as possible in order to assure maximum efficiency.

The valves designation of use is for High Pressure (HP-S) BS EN1111 and the recommended mixed water outlet for showers at point of discharge is 41°C

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.

The check valves with strainers are inserted in the inlet connections in order to prevent backflow.

RECOMMENDED OUTLET TEMPERATURES

The following set maximum mixed water outlet temperatures are recommended for use in all premises:

44°C for bath fill but see notes below;

41°C for showers

41°C for washbasins

38°C for bidets

The mixed water temperature must never exceed 46°C

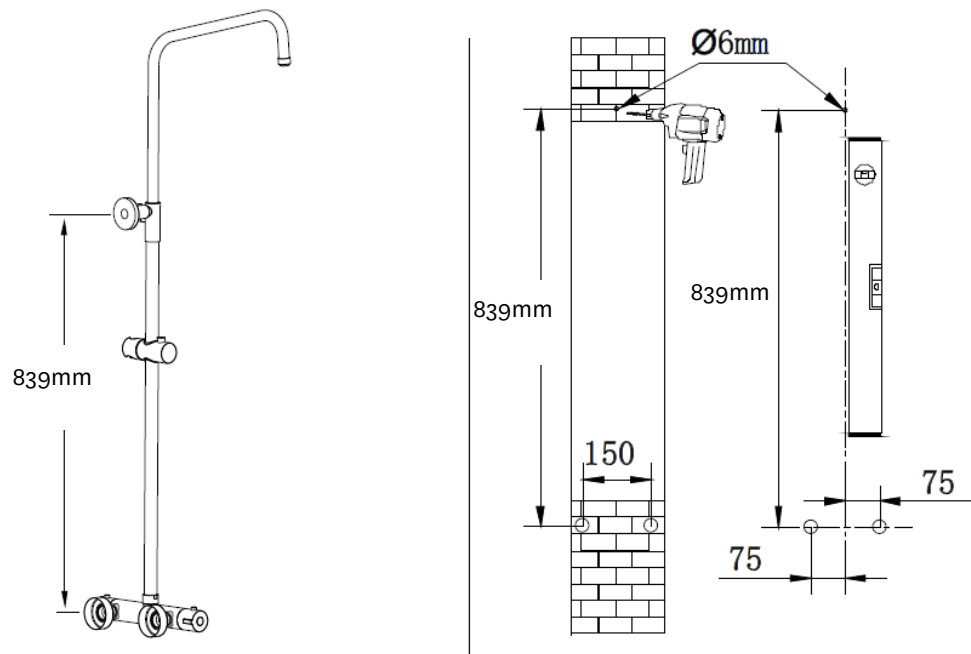
The maximum mixed water temperature can be 2°C above the recommended maximum set outlet temperatures.

The British Burns Association recommends 37 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.

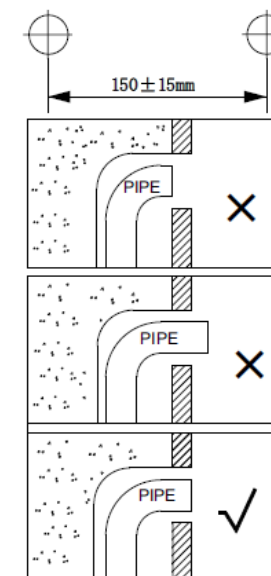
INSTALLATION

Important points to note before commencing installation of your shower mixer. You should have:-

- Check the contents of the box and all parts are present and correct.
- Check to ensure the minimum operating conditions can be met. The correct tools to perform a trouble free installation
Consider the surrounding environment where the installation is to take place and any potential hidden dangers.
- Isolate both the hot and cold water supplies
- Consider the total height of the assembled bar mixer and rail system when positioning the pipework in the wall. You must allow enough space for the full product to be installed.



- Prepare the Hot and Cold supply pipes at 150mm centres.
- Ensure the holes for the pipes are not made too big as this will affect drilling of the screw holes for the mounting brackets.
- Ensure that there is approximately 22mm of pipework left exposed proud of the finished tiled wall to establish the correct installation connection.
- Apply an appropriate amount of sealant between the pipe and wall lining to create a watertight seal.



It is the responsibility of the installer to ensure a waterproof seal is achieved between the product and mounting surface.

- Screw in the cranked connectors so that they are positioned at right angles in front of the wall. This is necessary to avoid spillage from the union nuts. (Cold water on right, hot water on left)
- Adjust the screwed-in cranked connectors horizontally in line with the spacing of the mixer connections. Screw the wall covers hand-tight onto the cranked connectors towards the wall.
- At this stage the pipe should be flushed of any debris. Failure to do so may result in the filter of the bar valve becoming prematurely blocked and reduce its performance.
- If not already integrated in the noise dampers, insert the seals into the union nuts and firmly screw onto the mixer using a smooth spanner (not a spanner with serrated jaws).

