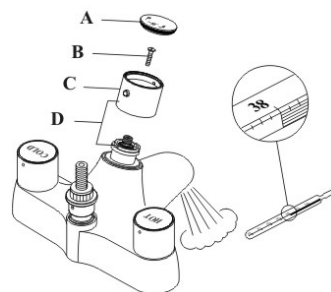


IMPORTANT – Before making water supply connections ensure that hot supply is connected to the left hand tailpipe and the cold supply to the right tailpipe, when viewed from the front. If supplies are the opposite way round, these will have to be crossed before connecting the mixing valve.

IMPORTANT – It is a requirement that all TMV2 approved valves shall be tested against the original set temperature results once a year. When testing is due the following performance checks shall be carried out.

IN - SERVICE TEST

1. Measure the mixed water temperature at the outlet.
2. Carry out the cold fail-safe shut off test by isolating the cold water supply to the TMV, wait for five seconds if water is still flowing check that the temperature is below 46 °C.
3. If there is no significant change to the set outlet temperature (± 2 °C or less change from the original settings) and the fail-safe shut off is functioning, then the valve is working correctly and no further service work is required.



Re-setting maximum temperature.

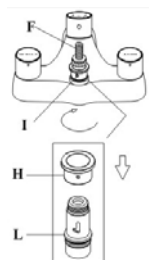
Re-setting the maximum temperature is not advisable. However, in situations where it is required, please follow these instructions.

Remove plate (A) inserting a pin in the hole behind the knob. Loosen the screw (B) remove the knob (C). Then using allen key provided, position down centre of spindle (D) locate on the internal screw and turn. Rotating screw anti-clockwise will increase temperature, rotating clockwise will decrease temperature.

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

THERMOSTATIC CARTRIDGE CALIBRATION.

Check the recommended temperature by placing handle (C) back on spindle and turn anti-clockwise until stop is reached. Once satisfied, screw back in place (B) and insert the plate (A).



NOTE – Any TMV that has been adjusted or serviced must be re-commissioned and re-tested in accordance with the manufacturers' instructions.

CAUTION

The following temperatures are recommended for all premises and should never exceed 46 °C

Application	Recommended Set Mixed Water Temperature
for bath fill.	44°C
for shower applications	41°C
for wash basin applications	41°C
for bidet applications	38°C

OPERATION

The BTS is supplied factory set maximum at 46°C For showering applications we recommend a temperature no greater than 41°C. It is essential that when using the shower function of the BTS the outlet temperature is reduced to prevent injury.

Operating the Fully Thermostatic Bath and Shower Mixer.

The purchase of this fully thermostatic Bath and Shower Mixer gives you complete confidence that you can both bathe and shower in perfect safety. Operating the central easy grip handle fully controls both the bath and shower water temperature ensuring that safety is at heart of this product.

WHEN IN OPERATION OF EITHER BATH OR SHOWER BOTH HOT AND COLD HANDLES ARE TO BE TURNED ON TO OPERATE THE THERMOSTATIC CONTROL. Failure to not turn on both handles will not allow water to flow correctly as designed, due to the in built safety feature.

The default operation is always the bath and then diverter used at the rear of the fitting to change water flow over to the shower. When either option is in use however, the temperature control is then co-ordinated by the central handle.

FUNCTION OF THE DIVERTER.

Lower the diverter knob (H) and turn clockwise in order to insert the dowel (I) in the housing on the body (L). Now the water will pass through the outlet to shower (F). Return the diverter back to its position by reversing the above instructions. This operates on pressure of 0.2 and above.

PLEASE NOTE HOWEVER UPON USING THE MANUAL OVERRIDE IT IS ALWAYS RECOMMENDED TO DIVERT BACK TO BATH AFTER USE, SO UNFORESEEN DISCHARGE FROM THE SHOWER HEAD UPON NEXT USAGE IS NOT HAZARDOUS TO THE POTENTIAL BATHER.

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, avoid contact with concentrated bleach.

5 YEAR GUARANTEE Pegler taps and Mixers are guaranteed for 5 years from the date of purchase.

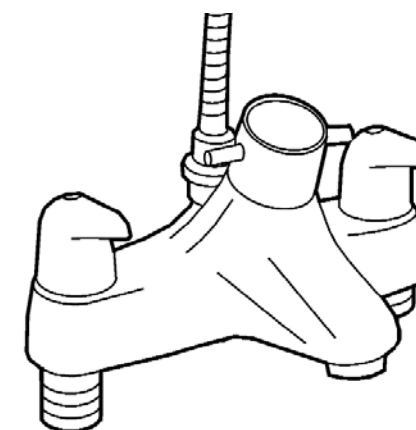
Pegler products are manufactured to the highest standards and should require little or no maintenance. In the unlikely event of any spare part requirements, please visit our website : www.pegler.co.uk , contact your nearest stockist or the Pegler Technical Office on telephone 0870 1200285

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

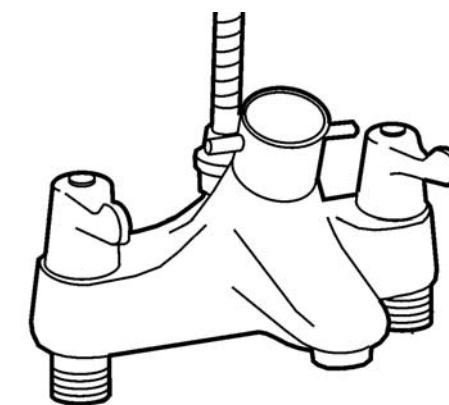
Your Guide to the installation, care and maintenance of

Leger & Performa QT

Leger L555 Thermostatic Bath / Shower Mixer
Performa 555 Thermostatic Bath / Shower Mixer



L555 Thermostatic Bath / Shower Mixer



555 Thermostatic Bath / Shower Mixer



PERFORMA

PEGLER WATER REGULATIONS REQUIREMENTS

The installation of thermostatic mixing valves must comply with the requirements of the Water Supply (Water Fittings) Regulations 1999.

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 bath/shower mixer 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) Pegler supply two non return valves, two filters, two retaining clips and three flow regulators, any combination of these can be used in conjunction with two brass housings - also supplied.

These products have been designed to function on all types of water systems.

Should excessive flow be experienced, then it may be necessary to install a Pressure reducing valve (PRV). It is also our recommendation and good plumbing practice that full bore servicing valves (PB300) should be installed upstream in the water supply line. This should be done so as close as is practicable to the water supply inlets of the thermostatic mixing valve.

The use of isolating valves is always good plumbing practise, for future servicing and maintenance.

NOTE – If a pump is to be installed to boost gravity supplies, please refer to the pump manufactures instructions.

WORKING PRESSURES

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

Minimum bath supply pressure 0.1 bar

Minimum shower diverter operation without manual fixing 0.2 bar

The valve has been designated for use as a Low Pressure valve in-line with BSEN 1287: 1999

NOTE – Valves that operate outside these conditions cannot be guaranteed to work /operate correctly by the scheme as a type two valve.

Max Pressure Differential 5:1 Minimum Temperature (Hot/Mixed) = 10°C - Differential

TABLE 1: CONDITIONS FOR NORMAL USE

	High Pressure BS EN 111	Low Pressure BS EN 1287
Maximum Static Pressure (bar)	10	10
Flow Pressure Hot & Cold (bar)	0.5 - 5 bar	0.1 - 1 bar
Cold Supply Temperature	≤ 25°C	≤ 25°C
Hot Supply Temperature	55 - 65°C	55 - 65°C

Pre-Installation Checks

When planning the plumbing for your Bath and Shower Mixer installation it is recommended that the hot and cold supplies are independent for gravity fed and pumped systems, and that no other draw off are on the same feed. For unvented and gas heater installations it is preferable that both supplies are the first on the circuit. The hot and cold inlets for your bath and shower mixer are, hot on the left and cold on the right, when viewed from the front of the fitting. Connections MUST be made in this way. Failure to do so is dangerous to the user and could result in irreparable damage to the internal valve mechanism.

Always ensure the installation of the valve is in such a position that maintenance of the fitting and its valves and the commissioning and the testing of the TMV can be undertaken.

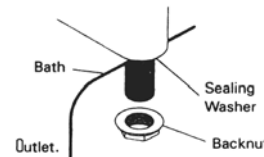
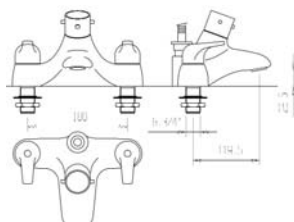
COMMISSIONING INSTRUCTIONS

Before Commissioning this or any other TMV you must ensure the following:

1. The designation of the thermostatic mixing valve matches the application.
2. The supply pressures are within the valves operating range.
3. The supply temperatures are within the valves operating range.
4. Isolating valves (and strainers preferred) are provided

MOUNTING THE FULLY THERMOSTATIC BATH AND SHOWER MIXER.

- a) Remove bath panel to gain access to securing the plumbing connections.
- b) Ensure water is turned off and has been fully drained.
- c) Disconnect both supplies.
- d) Unscrew backnuts and remove existing fitting or taps.
- e) Clean tap platform before installing your new Bath and Shower Mixer.
- f) Place sealing gasket on top platform in-line with existing holes.
- g) Locate Bath and Shower Mixer through holes and secure to tap platform with brass backnuts provided. Using the additional sealing washers beneath the ware.



OUTLET CONNECTIONS

The outlet for the shower is 1/2" BSP male thread. This will accept standard shower hoses screwed directly onto the outlet. Refer to the Francis Pegler luxury showers brochure for a comprehensive choice of 'Waterfall' shower kits. All sliding rail kits come with a hose retaining ring to ensure that the handset cannot be dropped into the water creating a possible back syphonage problem.

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, flow regulators may be fitted at this stage if required.

NOTE – The coloured regulator ends signify the flow. Pink = 15.0 litres a minute. White = 8.0 litres a minute.

Use of flow regulator

	Cold inlet	Hot inlet
Gravity Both Supplies	No	No
Mains Cold/Gravity Hot	Yes/Pink	No
Unvented High Pressure	Yes/White	Yes/White
Pumped both supplies	No	No
Gas Instantaneous Heaters	Yes/White	Yes/White
Mains Cold/Pumped Hot	Yes/White	Yes/White
Gravity Cold/Pumped Hot	No	Yes/White

NOTE – When connecting the mixing valve to the mains supply it is recommended that the non return valves are fitted on both inlets. This is also imperative if the supply of water is unbalanced on the two inlets.

THERMOSTATIC VALVE: MAINTENANCE and/or CARTRIDGE REPLACEMENT.

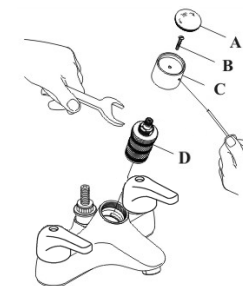
It is recommended that the thermostatic control is serviced annually as required by the TMV2 scheme.

Remove the plate (A) inserting a pin in the hole behind the knob. Loosen the screw (B) remove the knob (C). Use a good fitting spanner to unscrew the thermostatic cartridge (D) and remove it from the body of the tap. Descale with vinegar and lubricate the gaskets with heat-resistant grease. Re-assemble the whole by reversing the above procedure.

FITTING THE FLOW REGULATOR AND CHECK VALVES.

In all installations the minimum fitment must be, in order:

1. Two check valves first-installed with spring loaded central valve allowing for the flow of water into the mixer
2. Next the two flat filters-the installation of these is important to ensure that any chance of debris entering the thermostatic elements is removed. The lack of installation of these could cause the unit to malfunction and make void any warranty on the product.
3. Finally to hold the above items in position it is equally important that the retaining clips are used. These are to be located in the grooves machined on the inside of the tails by squeezing the clip and locating into position



Installations defined where the flow regulator are required, then this should be in place of the check valves. (The Pegler flow regulators combines a check valve and comes complete with a brass housing). Insert the appropriate regulator into the brass carrier. This should be done with "star" shaped coloured end pushed into the brass housing first. Push until 'o' ring forms a seal on internal bore of the brass housing. Next insert this assembly into the tail of the tap - "star" shaped coloured end first. Following this continue with stages 2 and 3 above.