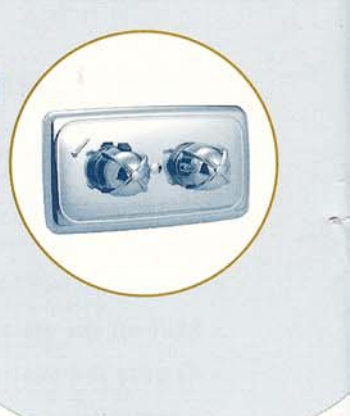
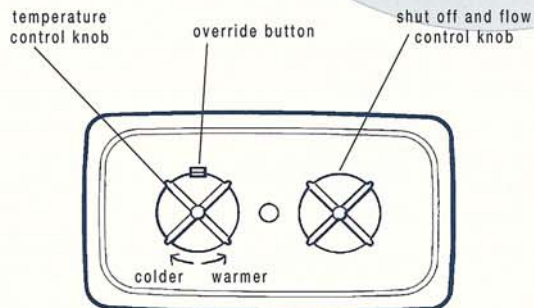


# Lady 6 5520 Pressure Balanced Thermostatic Concealed Mixer



## OPERATING INSTRUCTIONS

The knob with the button controls the temperature. The other knob which controls the flow is provided with a ceramic disc sealing and is fully open after 1/2 turn. When the Temperature knob is turned clockwise to the stop only cold water is provided. The more it is turned anti-clockwise, the warmer water is supplied. After one complete turn, the override button must be pressed in order to obtain warmer water. The knob can then be turned another 1/2 turn. The mixed water temperature now supplied is warmer than what is normally required for shower or bath.

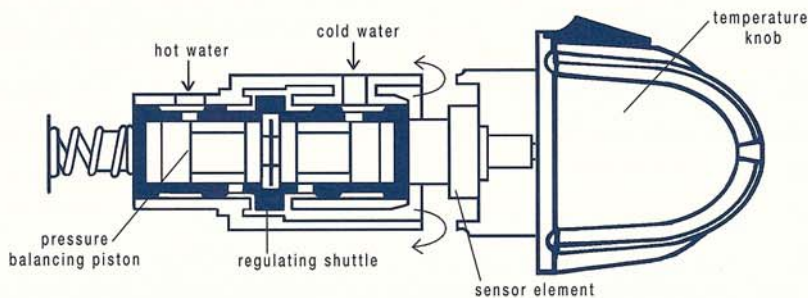


The mixer can be installed vertically or horizontally. If required even up side down.

## FUNCTION

The temperature is regulated in the mixer by a pressure balancing and temperature control interplay. The pressure balancing piston, operating inside the temperature regulating shuttle, is first handling the cold and hot water. The piston continuously finds the position where cold and hot water gets equal pressures when entering the temperature regulating function.

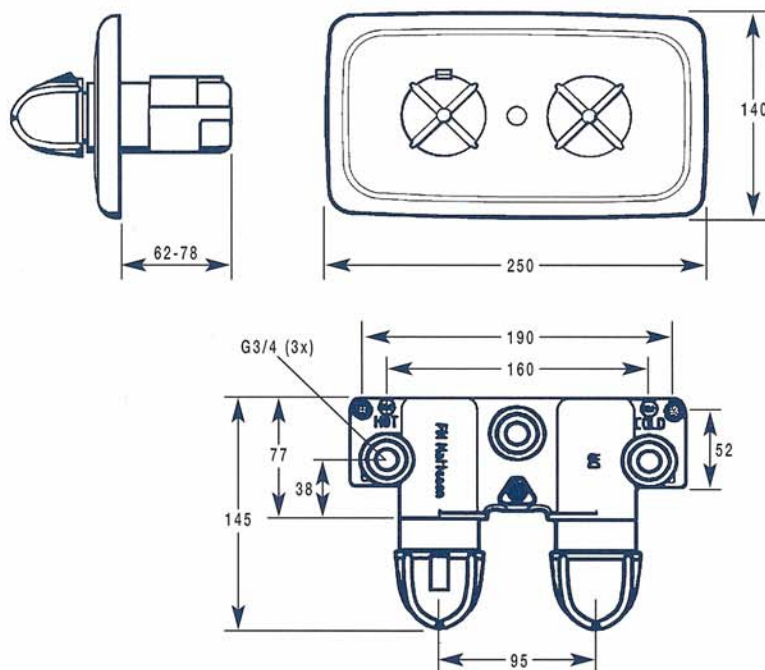
The position of the regulating shuttle is controlled by the temperature knob. The sensor element is located between the shuttle and the knob, and compensates for the temperature fluctuations of entering cold and hot water from the supply. The outgoing mixed water is delivered with an even, stable temperature.



## INSTALLATION

- Attach the bracket to the mixer body.
- Attach the mixer body to the wall. The mixer can be installed with the connections upwards, downwards or sideways.
- The dimensions are shown on the adjoining illustration and drawing. Note the depth dimension from completed wall 62-78 mm.
- Rinsing the supply pipework before attaching the mixer eliminates the risk of getting the filters clogged up by unwanted particles and impurities from the tubes.
- Connect the pipes. Note that the inlets on the body are marked with "Hot" and "Cold".

- Thread the O-rings on to the mixer necks. Make sure they are not twisted. The O-rings are to seal against the cover plate when it is attached and pushed against the wall.
- Attach the cover plate over the mixer necks, with the drainage hole downwards.
- Secure the cover plate and press on the screw cover cap.
- Assemble the knobs. The temperature knob is applied with the override button upwards. Fit the lug inside the knob to the right of the stop guidance (see illustration).
- Open the main supply valve and check the provided temperature.

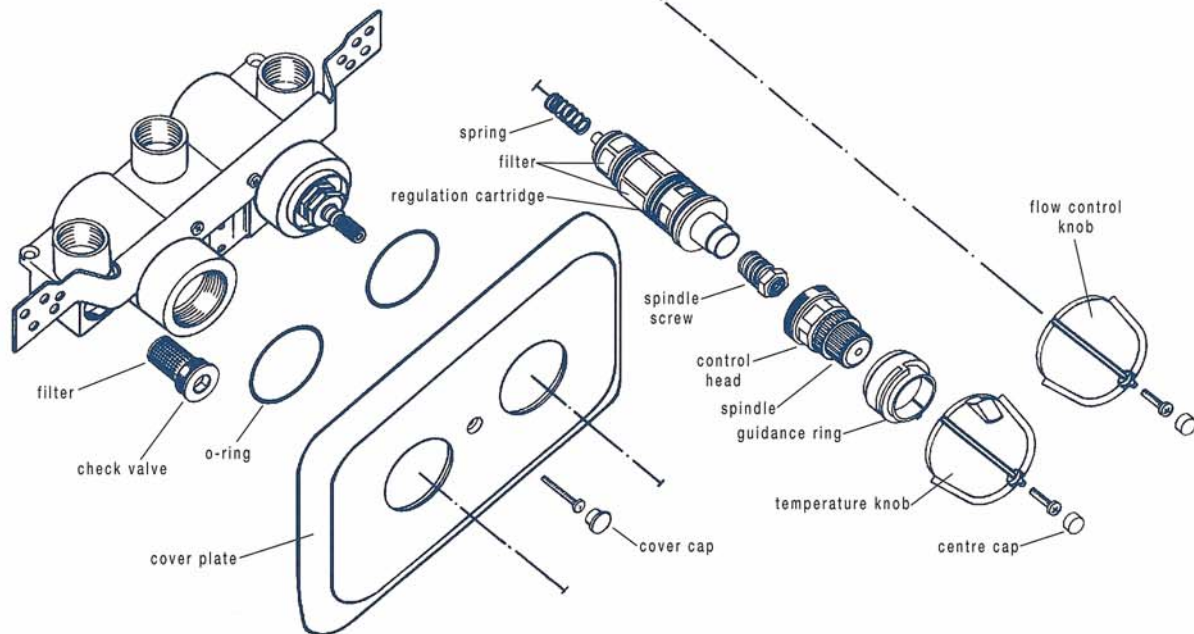


## TESTED AND APPROVED BY FM MATTSSON

Every mixer is tested and approved.

The mixers are subjected to the following test in production.

- Tightness test with open and closed flow control.
- Tightness test of hot and cold water seat.
- Fail safe test.
- Cold water pressure 100 kPa > hot water pressure - Checking the mixed water temperature.
- Hot water pressure 100 kPa > cold water pressure - Checking the mixed water temperature.



## FUNCTION DEFECT REMEDY

If the mixer does not provide sufficient amount of water or if the temperature regulation/stability is disturbed, the first measure is to clean the filters. If this action is not effective, replace the regulation cartridge.

### Cleaning the filters

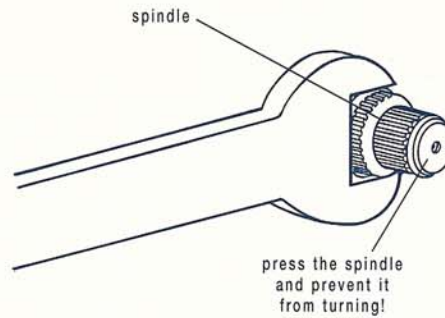
The inlet filters are attached to the check valves and are located on two plugs/inserts on the mixer body front. Two finer meshed filters are fitted around the regulation cartridge inlets in the mixer.

- Shut off the main water supply.
- Remove the center screw caps, a screwdriver slot is found on the side of the centre cap. Dismount the knobs, pull straight out.

- Remove the cover cap (a slot is found on the underside) and unscrew the cover plate.
- Dismount the check-valve inserts (10 mm internal hexagon). Remove the O-ring and pull off the filters from the cartridges.
- Dismount the T/P regulation cartridge (see "Regulation cartridge replacement").
- Pull off the filters from the cartridge. The O-ring must be removed to allow the large filter to come off.
- Clean all the filters (replace if necessary) and reassemble the parts.
- Reopen the main supply valve.
- Adjust the temperature override limit (see "Checking the delivered water temperature").

## Regulation cartridge replacement

- Shut off the main water supply.
- Remove the center screw caps, a screwdriver slot is found on the side of the centre cap. Dismount the knobs, pull straight out.
- Remove the cover cap (a slot is found on the underside) and unscrew the cover plate.
- Mark the positioning of the guidance ring (in relation to the body) and pull it off.
- Unscrew the control head as follows:
- Press the spindle and prevent it from turning with the control head when dismantled (see illustration).
- Dismount the regulation cartridge.
- Remove the spindle screw and the spring from the cartridge.
- Fit the spring and the spindle screw to the new regulation cartridge.
- Reassemble all parts. Press in the spindle when the control head is attached (see illustration).
- Reopen the main supply valve and set the override temperature limit (see "Checking the delivered water temperature").



Mounting and dismantling the control head.

## Check-valves replacement

The check-valves are located inside the two plugs/inserts on the mixer body front. If replacement is necessary, see "Cleaning the filters".

## CERAMIC FLOW CONTROL HEAD REPLACEMENT

The mixer is provided with ceramic discs. If the knob turning becomes heavy, a replacement of the complete flow control head is recommended.

Proceed as follows:

- Shut off the main water supply.
- Remove the center screw cap with a screwdriver. A screwdriver slot is found on the side of the centre cap.
- Dismount the screw.
- Pull the knob straight out.
- Dismount the complete ceramic flow control head.
- Reassemble a new ceramic control head in the reversed order.
- Reopen the main supply valve.

