

**CONCEALED  
THERMOSTATIC  
VALVE WITH DIVERTER**



### GENERAL CHARACTERISTICS

The Valve is suitable for all water heating systems provided it is installed correctly by a competent and qualified installer.

Please refer to installation diagrams.

### OPERATING SPECIFICATIONS

Hot water supply temperature:

Maximum: 85°C

Minimum: 5°C Higher than maximum required mixed temperature.  
Advisable 65°C

Minimum difference between hot and mixed temperature is 10°C

### Operating Pressure

Maximum: 5 Bar

Minimum: 0.1 Bar

Hot and Cold Operating pressure should be kept as balanced as possible in order to maintain maximum efficiency.

When the supply pressure is higher than a 5 Bar a pressure reducing valve should be fitted before the shower valve.

### TECHNICAL DATA

The mixer is supplied with a chromium-plated cover plate for installation depth from 65mm to 85mm. The temperature control knob is preset at 38°C with auto stop at 43°C to avoid scalding.

The mixer ports are supplied ½ BSP threads.

The valve is provided with an additional outlet at base of the valve (for bath filler).

When using the bottom outlet a flow control is required. Fit a stop valve between valve outlet and delivery point. The bottom outlet is sealed with a removable plug.

### PLUMBING RECOMMENDATIONS

- ◆ An independent hot and cold water supply is required for the shower system 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
- ◆ 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).

### WATER BYE LAWS

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

### FILLING COVER PLATE

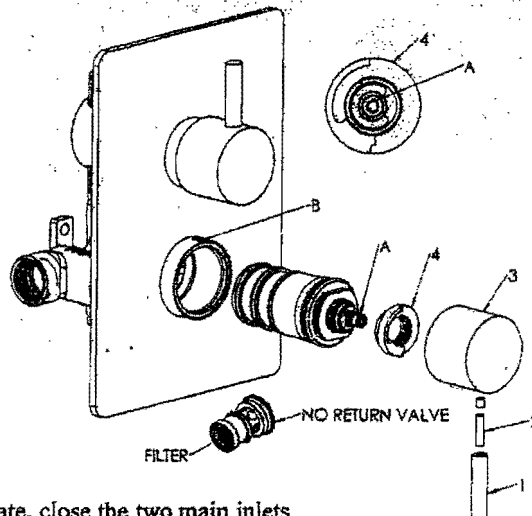
- ◆ Unscrew chrome control levers from both controls (1). Remove retaining grub screws (2) with 2.5 mm Alan key and lift off on/off control (3). Leave temperature control knob in place.
- ◆ Push chrome cover plate over temperature control.
- ◆ When in position re-fit chrome on/off control with spacer against cover plate. Push on controls and secure with grub screws using 2.5 mm Alan key.
- ◆ Fit control levers.
- ◆ Check that temperature is at max. 43°C before shower is used.

### MAINTENANCE – CARTRIDGE CHANGE AND CLEANING

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

To clean the filter:

- ◆ Shut off water supply to both inlets
- ◆ Remove the on/off control lever (1), remove grub screw (2) with 2.5mm Alan key, take off temperature control (3) and stepped brass washer (4).
- ◆ Unscrew cartridge using 30mm spanner. Wash filters under running water or leave to soak in vinegar or de-scaling agent.
- ◆ Before re-assembling cartridge clean its housing with wet cloth and grease "O" rings on cartridge.
- ◆ Re-assembling cartridge into body.
- ◆ Re-fit stepped plastic washer according to the drawing and turn spindle (A) until you reach required temperature 38°C.
- ◆ Re-fit temperature control knob. Test that maximum temperature is set at 43°C.
- ◆ Re-fit control lever.



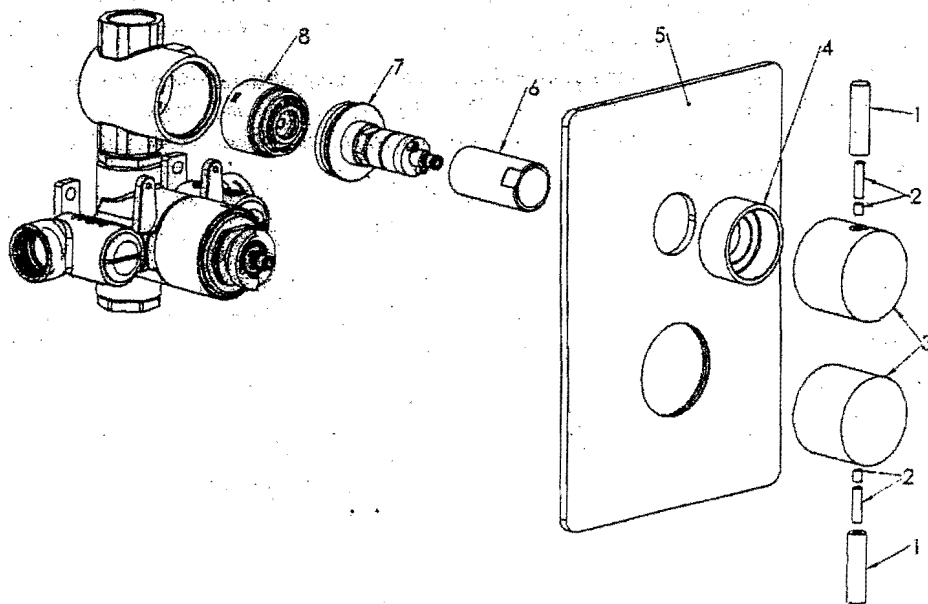
### IMPORTANT:

In case of reduction of flow rate, close the two main inlets and check if the filter at the bottom of the non-return valve are dirty, in this case clean them.

### MAINTENANCE – DIVERTER CARTRIDGE CHANGE

To remove the diverter cartridge:

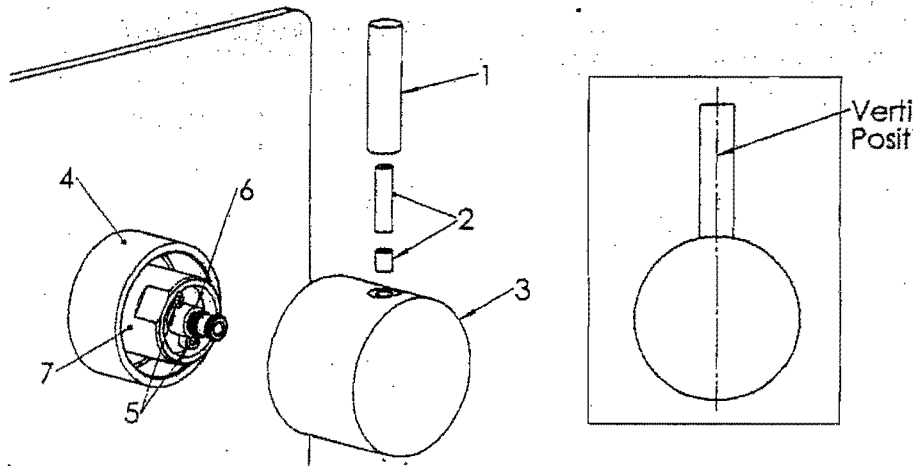
- ◆ Shut off water supply to both inlets
- ◆ Remove the two lever (1), remove grub screw with 2,5 mm Allen key (2), take off the three knob (3).
- ◆ Unscrew the two adapters (4) attention not to lose the two “O”-ring
- ◆ Remove the cover plate (5)
- ◆ Unscrew by hand the element (6)
- ◆ Unscrew flange (7) using 19mm spanner.
- ◆ Remove the diverter cartridge
- ◆ Place the new cartridge, inserting the two pivots into the corresponding seats
- ◆ Before re-assembling cartridge clean its housing with wet cloth and grease “O” rings on cartridge.
- ◆ Place the new cartridge, inserting the two pivots into the corresponding seats.
- ◆ Re-fit flange (7), screw by hand the element (6)
- ◆ Re-fit the cover plate (5)
- ◆ Screw th adapters with “O”-ring (4)
- ◆ Re-fit the two knob (3) ad the two lever (1)



### VERTICAL REGULATION OF THE DIVERTER HANDLE

If diverter handle, top handle, is not perfectly lined up with the vertical, following procedure:

- ♦ Shut off both inlets water supply
- ♦ Remove the diverter handle lever (1), remove the grub screw (2) with a 2,5 mm A key, remove the diverter knob (3).
- ♦ Remove the adapter (4) in order to avoid damaging the finish
- ♦ Unscrew the screw (5) with a 2,5 mm Allen key. Attention do not unscrew completely but loos it only in allow order to the movement of the element (6)
- ♦ Slightly screw one of the two screw (5). Attention do not screw completely in order allow the rotation of the element (6) with a light strength.
- ♦ Re-fit the diverter handle with the lever close to the vertical direction
- ♦ Rotate the handle so that the lever is in a vertical position
- ♦ Remove the handle and screw completely the screw (5). Attention during the spin ch that the element (6) does not rotate, this should happens, adjust again the verti position, unscrew the element (7) by hand and lock the element (6) with a pliers.
- ♦ Screw the adapters with "O"-ring (4)
- ♦ Re-fit the two knobs (3) and the two levers (1)



### **IMPORTANT – CARE OF YOUR PRODUCT CLEANING**

After use all finishes should be maintained by wiping with a soft, damp, clean cloth and then polished using a dry duster. NO abrasive powder, detergents or polishes should be used. Cleaner containing alcohol, acid or corrosive chemicals should not be used.

### **NOTE**

- ◆ Some household bleaches and denture cleaners can damage plated or coloured finishes and if splashed onto a fitting should be immediately washed off with cold water.
- ◆ If these instructions are followed we believe this fitting will give many years of satisfactory use.
- ◆ We have a policy of continuous improvement and reserve the right to change specification without notice.

### **GUARANTEE**

The shower valve is guaranteed for a period of 5 years against any defects of materials and workmanship from date of purchase, subject to correct installation, maintenance and use in accordance with this instruction leaflet. Please retain proof of purchase.

During the guarantee period parts will be replaced or repaired at our option. No labour costs will be reimbursed unless prior agreement has been obtained from the factory.

This guarantee is offered as an extra benefit and does not affect your statutory rights as a consumer in any way whatsoever.

