

### INSTALLATION:

- \* It is important that both supply pipes are flushed before connecting mixing valve to ensure no pipe/plumbing debris enters mixing valve.
- \* We recommend fitting strainers to ensure no debris enters the mixing valve.
- \* In hard water areas the mixing valve may require more frequent cleaning/servicing.
- \* Before mounting the valve to the wall the position for pipework should be decided.
- \* By removal of the backplate the valve body base clearly identifies the hot and cold inlets. It is important to connect these correctly.
- \* Use the backplate (24) as a template to mark position of the fixing holes.
- \* Drill and plug the wall to suit screws provided and secure backplate (24) to wall.
- \* Locate valve body into the backplate and lock with grub screw.
- \* Connect inlet pipes to isolators.
- \* Top or bottom outlet can be achieved by simply using the blanking plug (26) and 'O' ring (27) to blank off outlet not required.

MINIMUM PRESSURE DROP THROUGH FITTING FOR CORRECT MIXING	0.1 BAR (1metre head)
MAXIMUM PRESSURE DROP THROUGH FITTING FOR CORRECT MIXING	5.0 BAR (50 metre head)
MAXIMUM STATIC PRESSURE TO BE APPLIED TO FITTING	10.0 BAR (100 metre head)
MAXIMUM PRESSURE LOSS RATIO	10:1 EITHER SUPPLY
TEMPERATURE STABILITY WITH NORMAL VARIATION OF SUPPLY TEMPERATURES AND PRESSURES	± 2°C from set temperature
FACTORY SET STANDARD BLEND TEMPERATURE	43°C (Can be reset on site between 38°-55°C)
MAXIMUM HOT SUPPLY TEMPERATURE	80°C

### PERFORMANCE

PRESSURE DROP (BARS)	0.1	0.2	0.4	0.6	0.8	1.0	1.5	2.0
FLOW LTRS/MIN	30	45	65	80	95	105	120	140

FLOW RATES IN LITRES/MIN ON EQUAL PRESSURE DROPS AT MID BLEND POSITION.

### SERVICING / MAINTENANCE:

- \* This valve does not normally require regular maintenance due to the hard wearing materials used within the valve. However in hard water areas it is recommended to service it annually to ensure optimum performance.
  - \* To do this the following procedure will apply:
  - \* Turn both isolating balls (28) with to shut off both hot and cold supplies (see fig. 3.)
  - \* Unscrew isolator nuts (28) from body (17), unscrew grub screw from backplate and remove valve assembly from wall and isolating adaptors.
  - \* Remove filters from isolating adaptors (28) and rinse through with cold water to remove any debris.
  - \* Remove knob insert (1) undo and remove retaining screw (2). Remove control knob (3), plain ring (6) and sleeve (4), exposing head assembly.
  - \* Remove head (5) from body (17) by using a 29mm A/F spanner, and remove bottom cap (21), piston assy (19) together with thermostat (15) and return spring (20).  
N.B. The piston assy (19) can be dismantled further, but is not necessary for general cleaning / servicing.
  - \* Soak all metal parts in de-scalent and wash off in clean water.
  - \* Lightly grease all parts with silicone grease and replace any worn or damaged 'O' ring seals.
- #### Re-assembly.
- \* Replace piston assy (19) ensuring ease of movement when in place (Piston should move with light finger pressure).
  - \* Replace spring (20) and bottom cap (21). It is important that the bottom cap is screwed in gently until it bottoms onto piston face (do not use excessive force).
  - \* The bottom cap (21) should then be unscrewed 1.1/4 turns to give the correct gap between piston and bottom cap.
  - \* Re-assemble head (5-14) and ensure adjusting screw is screwed back fully.
  - \* Fit thermostat (15) into head assy and screw head assy into valve.
  - \* Refit sleeve (4) and knob (3) and secure with retaining screw (2).
  - \* Refit valve onto wall, secure to backplate with grub screw and reconnect to isolators by tightening nuts (28) ensuring filters have been replaced and 'O' rings (29) are in position.
  - \* Finally reset temperature (see operation and temperature setting).

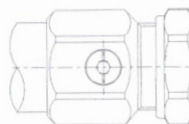
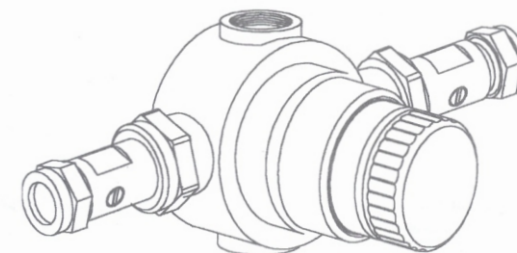


Fig 3. orientation of slot in shut off position.

## TS6000 GROUP CONTROL THERMOSTATIC MIXING VALVE



### INSTALLATION, MAINTENANCE AND OPERATING GUIDE

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**OPERATION AND TEMPERATURE SETTING:**

\* This valve is factory set at 43°C but slight adjustment may be necessary depending on the installation.

\* To adjust the temperature supply ensure that the water is flowing and remove the knob insert (1) from the valve. Using a narrow bladed screwdriver, insert it through the retaining screw (2) until it is located in the slot of the adjusting screw (12). (fig 1).

\* Turn adjusting screw clockwise for cooler temperature.

\* Turn adjusting screw anti-clockwise for warmer temperature.

\* When the water is flowing at a desirable temperature simply replace the knob insert (1).

\* For locked control, position knob (3) so that the stops found on the inside of the knob are each side of the lug in the sleeve (4). Screw in retaining screw (2), set temperature (as above) and replace the knob insert (1). (The valve is factory set in this position).

\* For limited temperature adjustment position knob (3) with the stops to the left of the lug in the sleeve (4). Screw in retaining screw (2), set temperature (as above) and replace the knob insert (1).

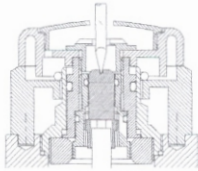


FIG 1

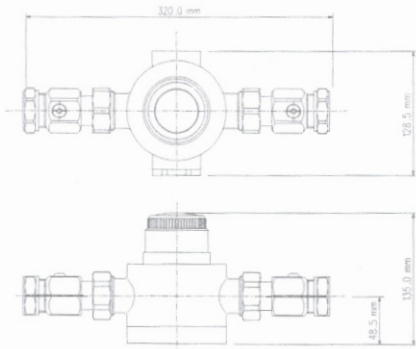


FIG 2

DESCRIPTION	PART No	ITEM	DESCRIPTION	PART No
KNOB INSERT	780072BL-6000	17	BODY	140350CP
ADJUSTING SCREW	700903	18	O'RING	480226
CONTROL KNOB	240391BL	19	PISTON ASSY	320077
EVE	760099BL	20	SPRING	360121
ADJUSTING NUT	680032	21	BOTTOM CAP	560508
ADJUSTING RING	360073	22	O'RING	480136
ADJUSTING NUT	700901	23	SCREW (2)	560604
ADJUSTING RING	480117	24	BACKPLATE	220038CP
F.E. WASHER	300950	25	FIXING SCREW	540586
ADJUSTMENT HOUSING	700902	26	BLANKING PLUG	790402CP
ADJUSTING RING	480016	27	O'RING	480029
ADJUSTMENT SCREW	560550	28	ISOLATOR ASSY (2)	790400CP
ADJUSTING RING	480050	29	O'RING (2)	480025
ADJUSTING KNOB INSERT	790403	30	CHECK VALVE (2)	970092
ADJUSTING THERMOSTAT	740012	31	O'RING	480224
ADJUSTING RING	480030	32	FILTER	790404

