



## Application

Thermostat mixers are designed for hot water supply via pressurised storage heaters and, utilised in this way, provide the best temperature accuracy. With sufficient power output (from 18 kW or 250 kcal/min), electric or gas instantaneous heaters are also suitable.

Thermostats **cannot** be used in conjunction with non-pressurised storage heaters (displacement water heaters). All thermostats are adjusted in the factory at a flow pressure of 3 bar on both sides.

Should temperature deviations occur on account of special installation conditions, the thermostat must be adapted to local conditions (see Adjusting).

## Specifications

|  |                  |
|--|------------------|
| Minimum flow pressure without downstream resistances                                     | 0.5 bar          |
| Minimum flow pressure with downstream resistances  | 1 bar            |
| Max. operating pressure  | 10 bar           |
| Recommended flow pressure  | 1 - 5 bar        |
| Test pressure  | 16 bar           |
| Flow rate at 3 bar flow pressure   | approx. 26 l/min |
| Max. water temperature at hot water supply   | 80 °C            |
| Recommended max. flow temperature (energy saving)  | 60 °C            |
| Safety stop  | 38 °C            |
| Hot water temperature at supply connection min. 2 °C higher than mixed water temperature |                  |
| Cold water connection  | right            |
| Hot water connection   | left             |
| Minimum flow rate  | = 5 l/min        |
| If static pressure exceeds 5 bar, a pressure reducing valve must be fitted.              |                  |

## Installation

**Flush piping system prior and after installation of fitting thoroughly** (Consider EN 806)

Install S-unions and screw-mount the mixer, see fold-out page I, Fig. [1].

Refer to the dimensional drawing on fold-out page I.

The projection can be increased by 20mm with an extension, see Replacement Parts, fold-out page II, Prod. no. 07 130.

**Reversed connection** (hot on right - cold on left).

Replace thermostatic compact cartridge (P), see Replacement parts, fold-out page II, Prod. no.: 47 175 (1/2").

## Adjusting

**Temperature adjustment**, see Figs. [2] and [3].

1. Open the shut-off valve and check the temperature of the water with a thermometer, see Fig. [2].
2. Lever out cap (A), see Fig. [3].
3. Remove screw (B).
4. Detach temperature control handle (C).
5. Turn regulating nut (D) until the water temperature has reached 38 °C.
6. Install temperature control handle (C) so that button (E) points towards the front, see Fig. [2].
7. Screw in screw (B), see Fig. [3].
8. Refit cap (A).

## Temperature limitation

The safety stop limits the temperature range to 38 °C. The 38 °C limit can be overridden by pressing the button (E).

## Temperature limit stop

If the temperature limit stop should be 43 °C, use handel ref. No. 47 739 (see fold-out page II.)

## Adjusting the economy stop

**Volume adjustment**, see fold-out page I, Figs. [4] and [5].

- The flow rate is limited by a stop adjusted at the factory. If a higher flow rate is desired, the stop can be overridden by pressing the button (F), see Fig. [4].

To adjust the stop, proceed as follows:

1. Close shut-off valve.
2. Lever out cap (G).
3. Remove screw (H) and detach shut-off handle (J).
4. Remove splined adapter (K) and economy stop (L).
5. Reinstall economy stop (L) in the desired position. For adjustment range, see Fig. [5].
6. Fit splined adapter (K), see Fig. [4].
7. Fit shut-off handle (J) so that the button (F) points towards the front.
8. Screw in screw (H).
9. Refit cap (G).

## Prevention of frost damage

When the domestic water system is drained, thermostat mixers must be drained separately, since non-return valves are installed in the hot and cold water connections. For this purpose, the mixer must be removed from the wall.

## Maintenance

Inspect and clean all parts, replace if necessary and lubricate with special valve grease.

### Shut off the hot and cold water supply.

**I. Non-return valve (M)**, see fold-out page III, Fig. [6].

- Remove connection nipple (O) by turning clockwise (left-hand thread) using a 12mm allen key.

Install in reverse order.

**II. Thermostatic compact cartridge (P)**, see fold-out page III, Fig. [7].

- Loosen screw ring (R) using a 34mm tool.
- If necessary, lever out thermostatic compact cartridge (P) via recess (P1).
- Remove screw ring (R).

Install in reverse order.

**Observe the correct installation position of the thermostatic compact cartridge (P)**, see detail (P2).

Readjustment is necessary after every maintenance operation on the thermostatic compact cartridge (see Adjusting).

**III. Ceramic headpart (S)**, see fold-out page III, Fig. [8].

Install in reverse order.

**Replacement Parts**, see fold-out page II ( \* = special accessories).

## Care

For directions on the care of this fitting, refer to the accompanying Care Instructions.