

GROHE

WATER TECHNOLOGY

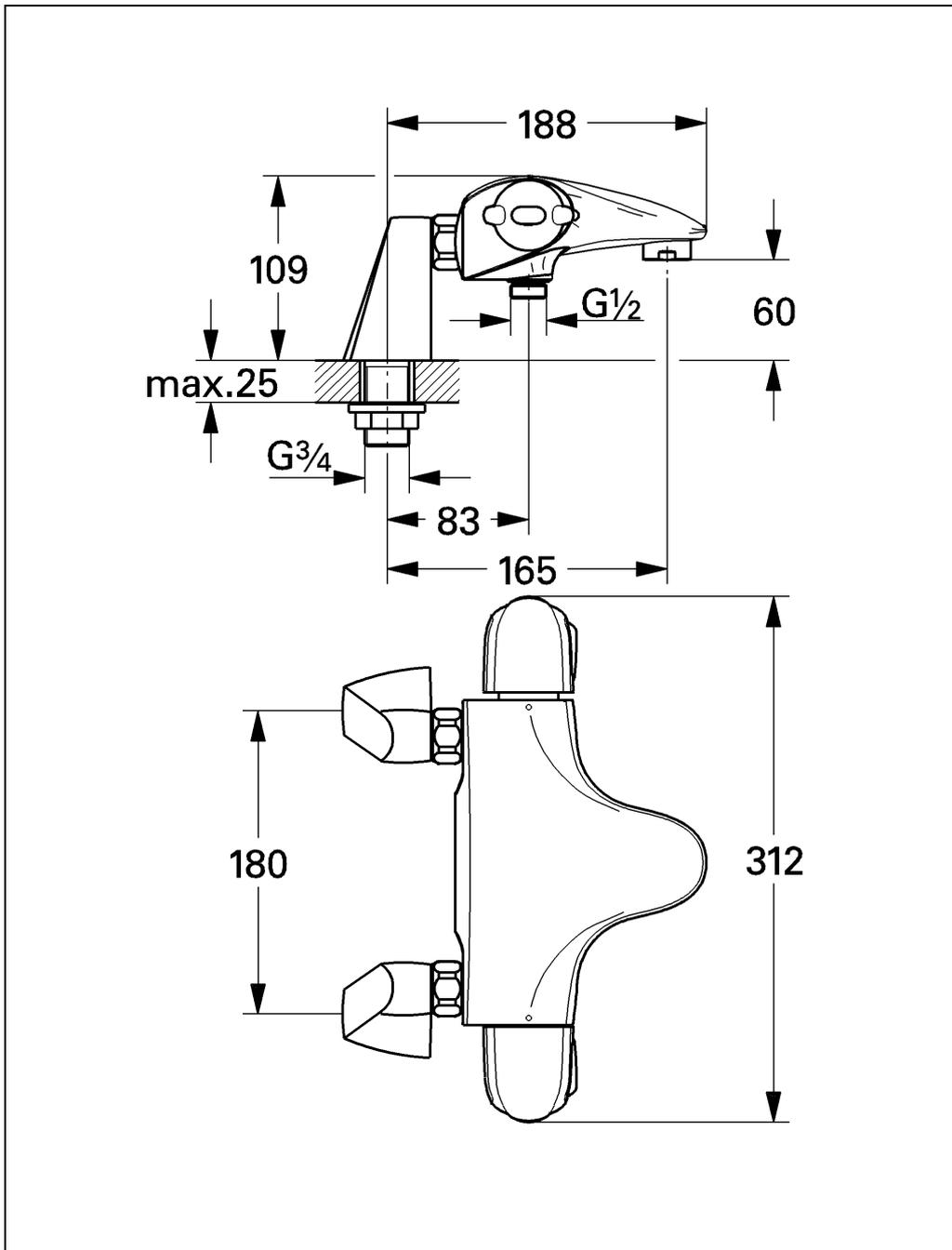
Grohtherm 3000



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Bitte diese Anleitung an den Benutzer der Armatur weitergeben!
Please pass these instructions on to the end user of the fitting.
S.v.p remettre cette instruction à l'utilisateur de la robinetterie!

GB**Application**

Surface mounted thermostatic mixers are designed for hot water supply via pressurized storage heater and utilized in this way provide the best temperature accuracy. With sufficient power (from 18 kW or 250 kcal/min) electric or gas instantaneous heaters are suitable.

Thermostats cannot be used in connection with low pressure storage heaters.

All thermostats are adjusted in the plant at a flow pressure on both sides of 3 bar.

If temperature deviations should exist due to special installation conditions, then the thermostat is to be adjusted to the local conditions (see Adjustment).

Specifications

Minimum flow pressure without downstream resistances	0.5 bar
Minimum flow pressure with downstream resistances	1 bar
Max. working pressure	10 bar
Recommended flow pressure	1 - 5 bar
Test pressure	16 bar
Flow rate at 3 bar flow pressure	approx. 20 l/min.
Max. water temperature at hot water inlet	80 °C
Recommended max. stored temperature (energy saving)	60 °C
Safety check	38 °C
Hot water temperature at supply connection min. 2 °C higher than mixed water temperature	
Hot water connection	left
Cold water connection	right
Minimum flow rate	= 5 l/min

At a flow pressure over 5 bar it is recommended that a pressure reducing valve be fitted in the supply line.

Installation**Flush pipe lines thoroughly**

Install pillar unions and screw-mount the mixer, see fig. [1]. In this connection, refer to the dimensional drawing on fold-out page I.

The hot water supply must be connected on the left and the cold water supply on the right as viewed from the operating position.

Test unions for leaks.**Adjustment**

For temperature-adjustment, see figs. [2], [3] and fold-out page II.

- Before the mixer is put into service if the mixed water temperature measured at the point of discharge varies from the specified temperature set on the thermostat.

- After any maintenance operation on the thermoelement.

Open the shut-off valve and check the temperature of the water with a thermometer, see fig. [2].

With the safety stop depressed, turn thermostat knob (C) until the water temperature reaches 38 °C.

- Lever out cap (M), see fold-out page II.
- Hold thermostat knob (C) in this position and unscrew and remove screw (D).
- Pull off thermostat knob (C) and reinstall in such a way that the 38 °C mark (◊) on the knob coincides with the mark (E) on the mixer body.
- Hold thermostat knob (C) and reinstall screw (D), see fig. [3].
- Fit cap (M) back on.

Temperature limitation

The safety stop limits the temperature range to 38 °C.

If a higher temperature is desired, the 38 °C limit can be overridden by depressing the safety stop.

Reversed union (hot on right - cold on left).

Replace thermoelement (S), see replacement parts fold-out page II, ref. No.: 47 282 (1/2").

Shut-off knob (I) operation.

Shut-off knob in central position	= closed
Shut-off knob clockwise	= discharge from spout
Shut-off knob anti-clockwise	= discharge from shower

[Press button (R), see fig. [5]]

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 pillar unions.

Maintenance

For maintenance, see fig. [4], [5] and fold-out page II.

Inspect and clean all parts, replace if necessary and grease with special valve grease (ref. No. 18 012).

Shut off hot and cold water supplies.

I. Remove non-return valve (08 565), see fold-out page II.

1. With a 30mm open-ended spanner, unscrew and remove mixer from pillar unions.
2. Remove dirt strainer (W).
3. With a 12mm hexagon socket spanner, remove union nipple (L) by turning clockwise (left-hand thread).
4. Remove non-return valve (X).

Reassemble in the reverse order.

II. Thermoelement, see fold-out page II.

1. Lever out cap (M).
2. Unscrew and remove (D) and pull off thermostat knob (C).
3. Unscrew and remove adjusting nut (B).
4. Pull off stop ring (A).
5. With a 24mm open-ended spanner, unscrew and remove thermoelement (S).

Reassemble in the reverse order.

Readjustment is necessary after every maintenance operation on the thermoelement (see Adjustment).

III. Aquadimmer, see fig. [6], [7] and fold-out page II.

1. Lever out cap (G) and remove screw (H).
2. Remove shut-off knob (I), splined adapter (J) and stop (K).
3. With a 19mm open-ended spanner, unscrew and remove aquadimmer (T).

Reassemble in the reverse order.

Observe the correct installation position, see fig. [4] and [5].

1. The various pins (F) and (F1) must project into the relevant apertures in the race, see Fig. [4].
2. Fit stop (K) so that arrow (N) coincides with marking (O) on the housing, see Fig. [5].
3. Turn isolating valve of the aquadimmer so that face (P) points to the front, see Fig. [5].
4. Fit splined adapter (J) so that arrow coincides with marking (O) in the housing.
5. Fit flow control knob (I), making sure that button (R) faces the front.

IV. Aerator (13 927), see fold-out page II.

Unscrew and clean aerator.

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

Care

For directions on the care of this thermostat mixer, please refer to the accompanying Care Instructions.

