



WATER TECHNOLOGY

## Grohtherm 3000

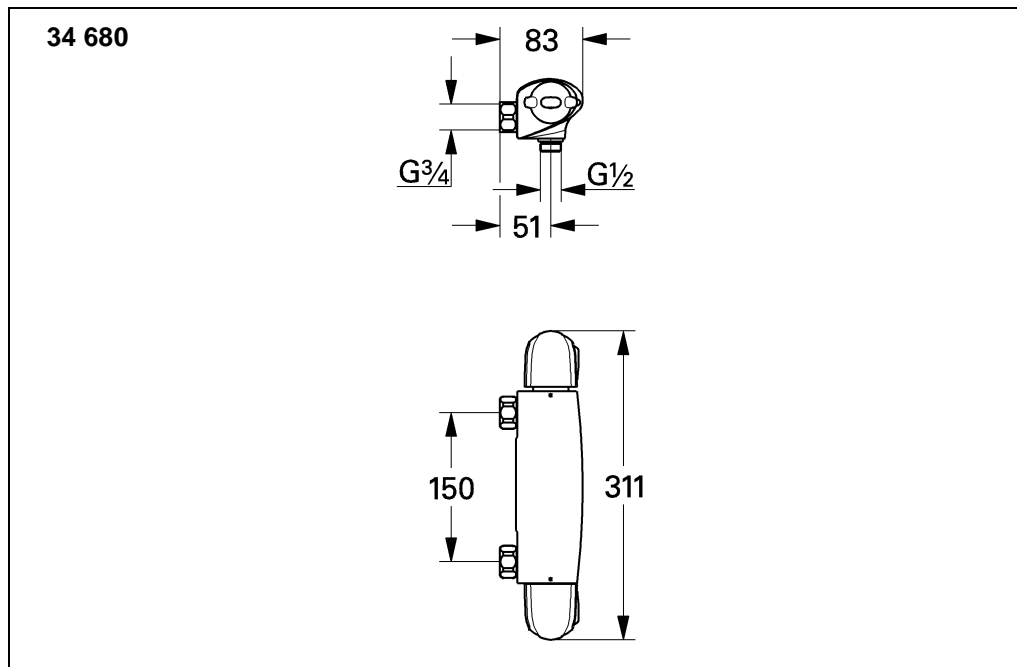
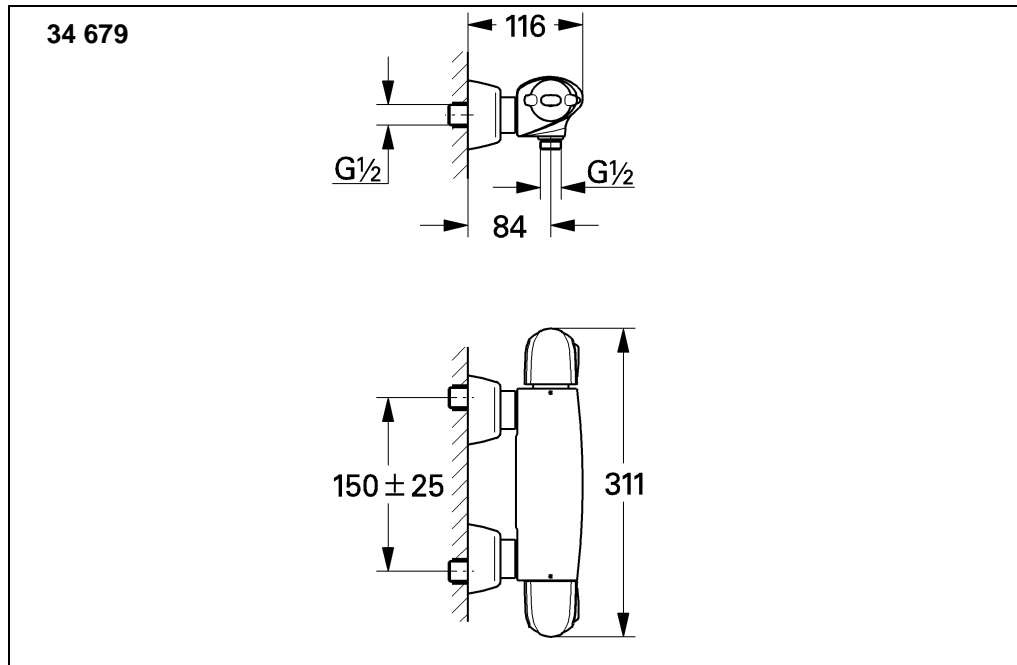


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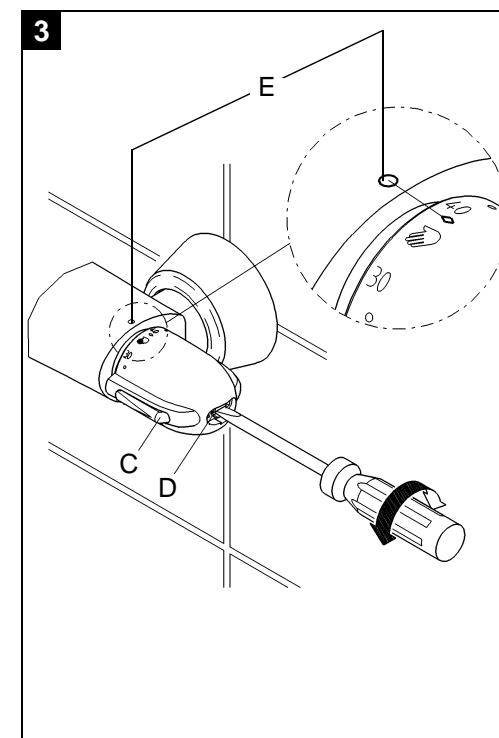
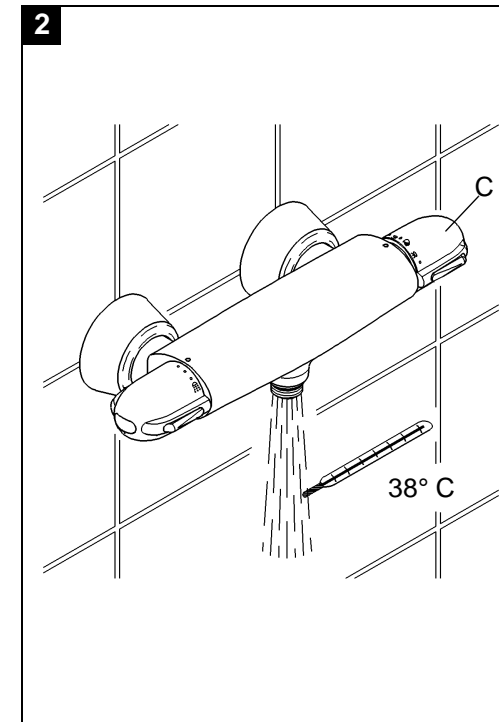
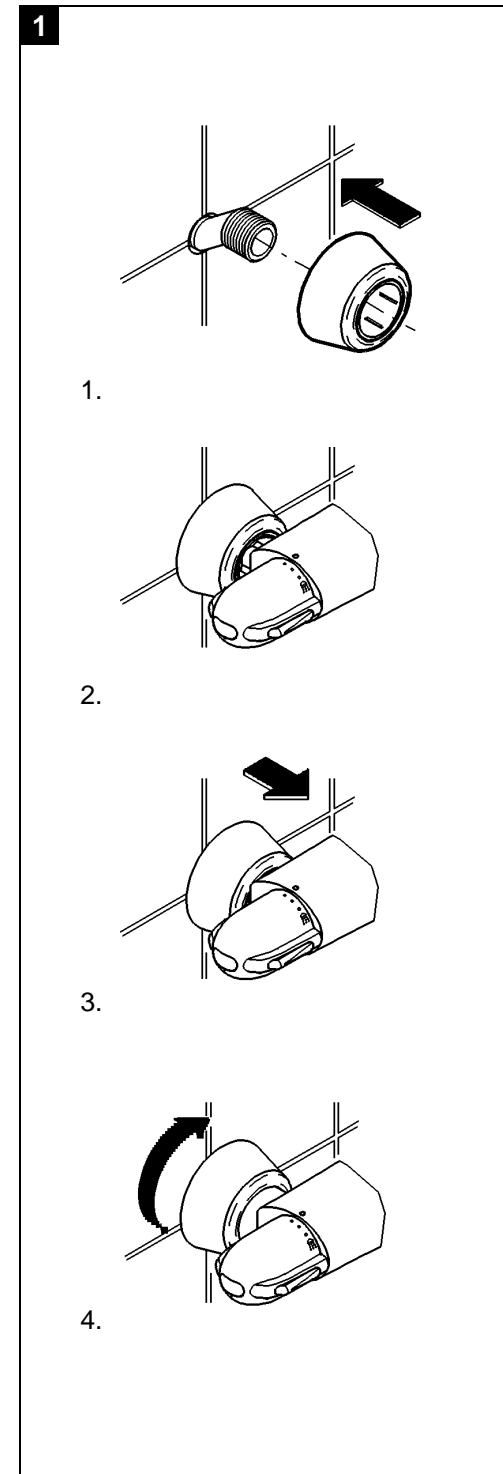


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Bitte diese Anleitung an den Benutzer der Armatur weitergeben!  
 Please pass these instructions on to the end user of the fitting.  
 S.v.p remettre cette instruction à l'utilisateur de la robinetterie!





**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. 24.5l/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 S-unions and screw-mount the mixer**, see fig. [1].

In this connection, refer to the dimensional drawing.

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

1. Install the S-unions and sleeve, preassembled with the escutcheon.
2. Screw-mount the mixer and test the unions **for leaks**.
3. Push the sleeve with escutcheon onto the union nut.
4. Screw the escutcheon flush against the wall.

The projection can be increased by 30mm with an extension, see Replacement Parts, fold-out page II, ref. No. 46 238.

**Adjustment**

**For temperature-adjustment**, see figs. [2] and [3].

- 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), see fig. [3].
- 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 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.

**Adjusting the economy stop**

**For flow rate adjustment**, see figs. [4] to [7].

- The flow rate is limited by a stop, adjusted by the factory.

If a higher rate is desired, the stop can be overridden by depressing the economy button (F), see fig. [4].

If the stop is required to be adjusted, proceed as follows:

1. Close shut-off valve.
2. Lever out cap (G) and remove screw (H), see fig. [4].
3. Remove shut-off knob (I), splined adapter (J) and economy stop (K), see fig. [5].
4. Reinstall economy stop (K) in the desired position. For adjustment range, see fig. [6].
5. Reinstall splined adapter (J) and shut-off knob (I) with economy button (F) facing the front.  
Reinstall screw (H) and refit cap (G), see fig. [7].

**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**

**For maintenance**, see fig. [1] and fold-out page II.

**Shut off hot and cold water supplies.****I. Non-return valve**

1. Disassemble mixer in reverse order, see fig. [1].
2. Remove dirt strainer (P).
3. With a 12mm hexagon socket spanner, remove union nipple (L) by turning clockwise (left-hand thread).
4. Remove non-return valve (R).

**II. Thermoelement**

1. Lever out cap (M).
2. Unscrew and remove (D) and pull off thermostat knob (C).
3. Unscrew and remove adjusting nut (B).
4. Remove clip (N).
5. Pull off stop ring (A) and splined adapter (O).
6. With a 22mm open-ended spanner, unscrew and remove thermoelement (S).

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

**III. Ceramic headpart**

1. Lever out cap (G) and remove screw (H).
2. Remove shut-off knob (I), splined adapter (J) and economy stop (K).
3. With a 17mm open-ended spanner, unscrew and remove ceramic headpart (T).

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

Reassemble in the reverse order.

Use only genuine **Grohe** replacement parts.

**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.

