

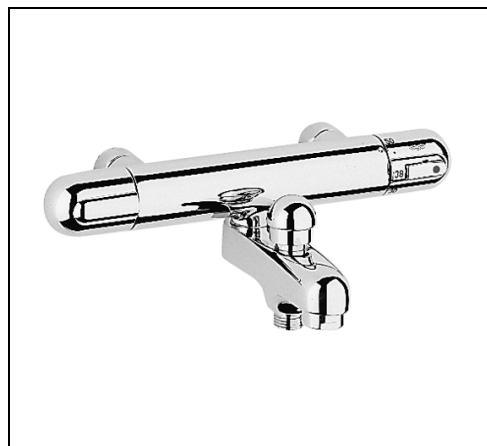
# GROHE

WATER TECHNOLOGY

## Grohtherm 1000



34 334



34 336



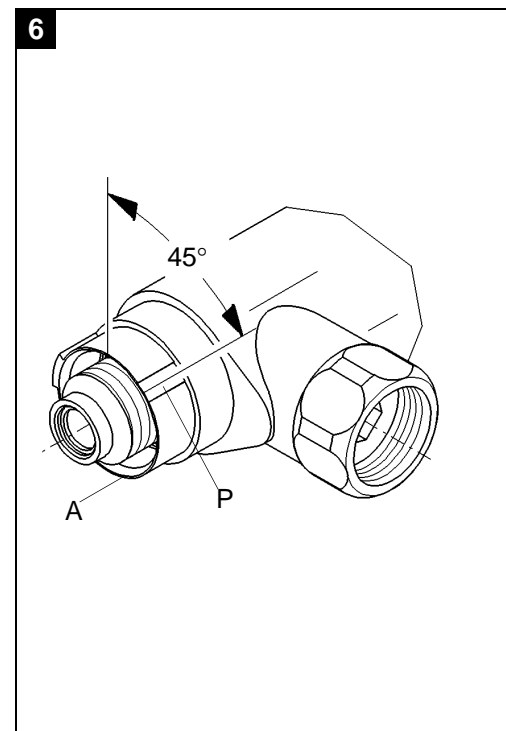
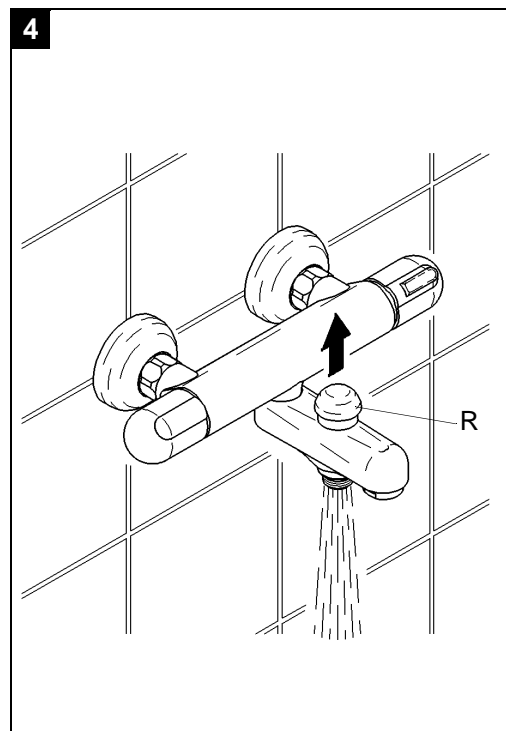
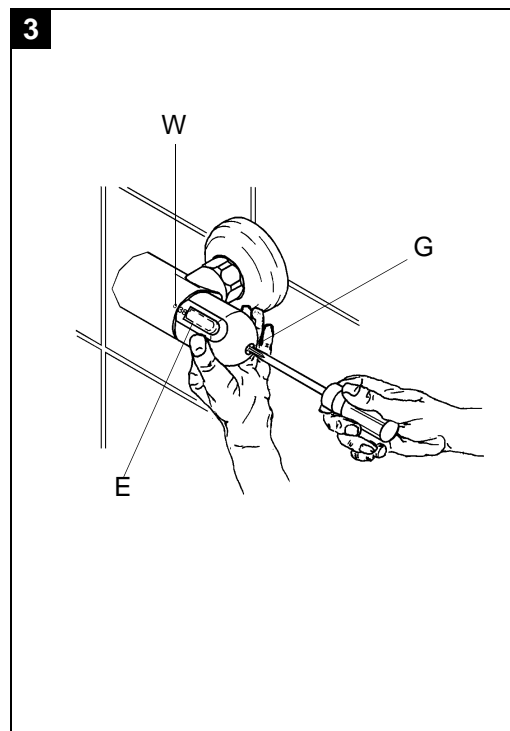
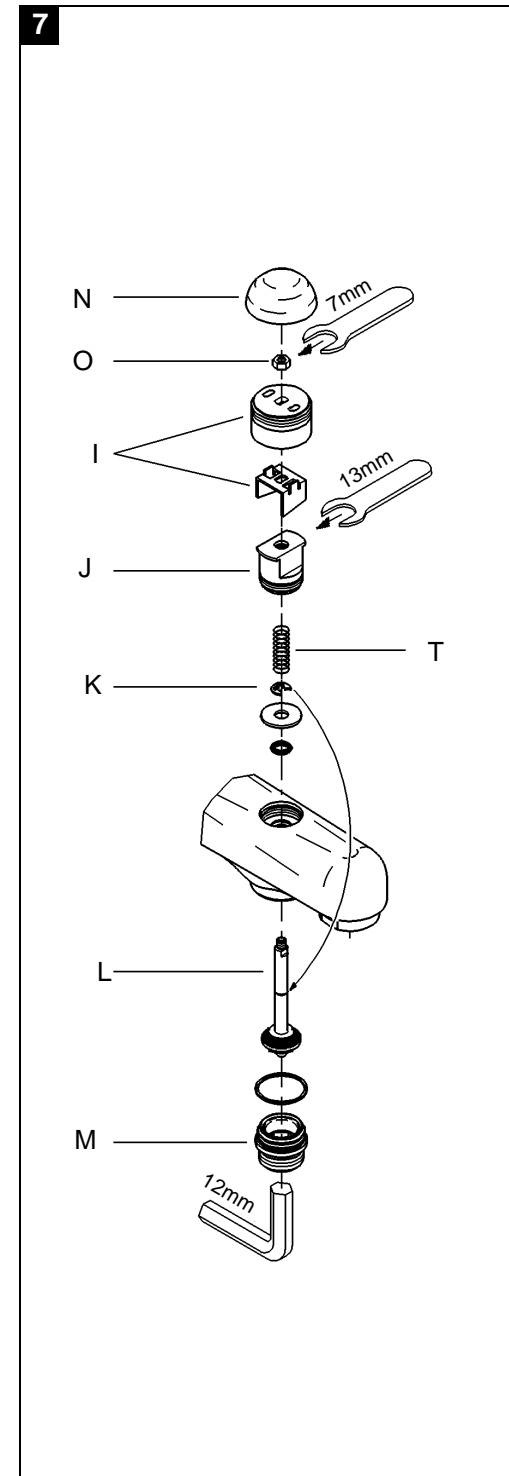
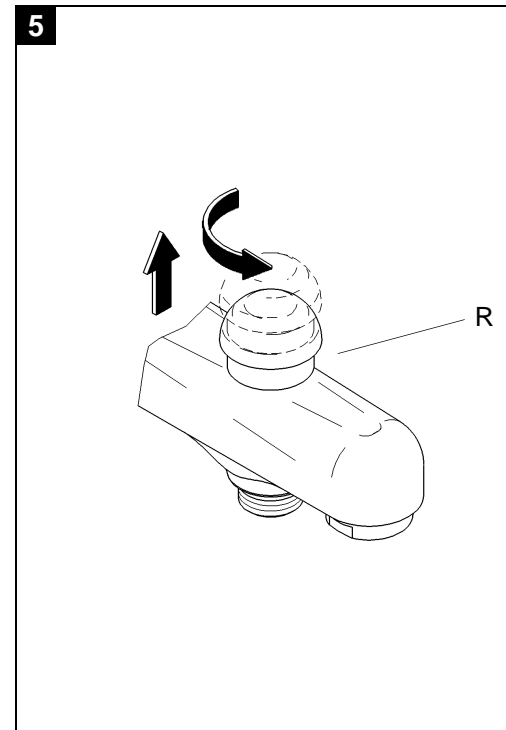
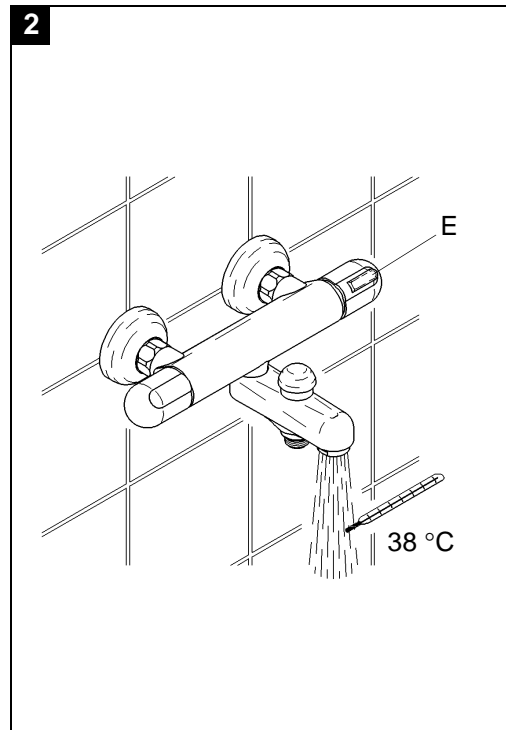
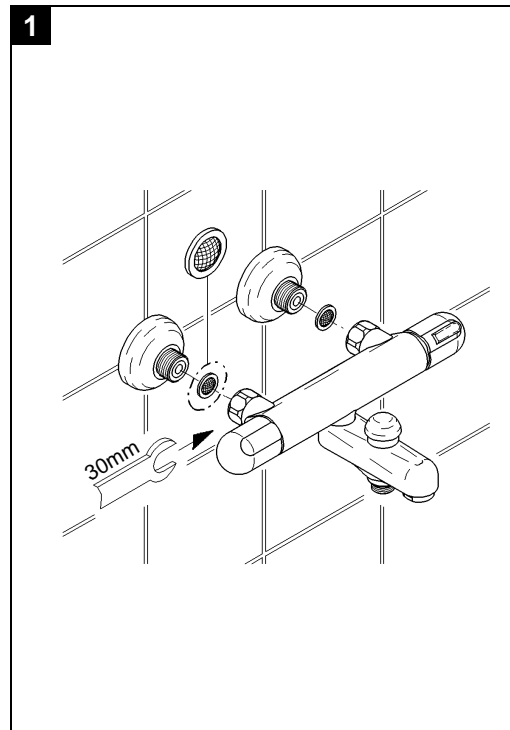
34 624



34 646

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**F** Page ..... 3   **S** Sida.....7   **PL** Strona. 11   **H** Oldal ...15   **SK** Strana..... 19  
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**GB****Application**

Thermostat mixers are designed for hot water supplies from pressurized storage heaters and offer the highest temperature accuracy when used in this way. Given sufficient output (min. 18 kW or 250 kcal per min), electric or gas-fired instantaneous heaters are also suitable.

Thermostats cannot be used in conjunction with unpressurized storage heaters (displacement water heaters).

All thermostat mixers are adjusted at the factory with a flow pressure of 3 bar on both sides.

If temperature deviations should occur on account of special installation conditions, the thermostat should be adjusted to local conditions (see Adjustment).

**Technical data**

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	
34 334 / 34 336	approx. 20 l/min.
34 624 / 34 646	approx. 27 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	
2 °C higher than mixed water temperature	
Hot water connection	left
Cold water connection	right
Minimum rate of flow	= 5 l/min

At flow pressures above 5 bar, we recommend installing a pressure reducer in the supply pipe.

**Installation****Flush pipe lines thoroughly**

Install S-unions and screw-mount the mixer, see fig. [1]. In this connection, refer to the dimensional drawings on fold-out page I. The hot water supply must be connected on the left, the cold water supply on the right, as viewed from the operating position. The projection can be increased by 20mm with an extension, see fold-out page I (ref. No. 07 130).

**Check connections for leaks.****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 (E) until the water temperature reaches 38 °C.

- Hold thermostat knob (E) in this position and unscrew and remove screw (G).
- Pull off thermostat knob (E) and reinstall in such a way that the 38 °C mark on the knob coincides with the mark (W) on the mixer body.
- Hold thermostat knob (E) and reinstall screw (G), see fig. [3].

**Reversed union** (hot on right - cold on left). Replace thermoelement (Z), see replacement parts fold-out page I, ref. No.: 47 282 (1/2").

**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.

**Temperature limit stopper** for 45 °C for additional assembly available under ref. No. 05 657, see fold-out page I.

**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.

**Check function of automatic changeover (R) of bath mixer 34 334 and 34 336**, see also fig. [4].

The water supply is turned on by lifting the lever.

The water will always emerge from the bath outlet first of all. Pulling the changeover selector (R) closes the water passage to the bath and the water is diverted to the shower outlet.

When the mixer is turned off, the diverter is automatically reset to its starting condition, with the result that the water always flows out of the bath tap when the mixer is turned on again.

In addition, the diverter assembly can be secured manually (advantageous at pressures below 0,5 bar or at low rates of discharge). In this case, pull the diverter knob of the diverter assembly (R) and turn it anti-clockwise, see also fig. [5].

**Maintenance**

**For maintenance**, see fold-out page I and fig. [6] and [7].

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

1. With a 30mm open-ended spanner, unscrew and remove mixer from unions.
  2. Remove dirt strainer (U).
  3. With a 12mm hexagon socket spanner, remove union nipple (S) by turning clockwise (left-hand thread).
  4. Remove non-return valve (V).
- Reassemble in the reverse order.

**II. Thermoelement**

1. Unscrew and remove (G) and pull off thermostat knob (E).
2. Unscrew and remove adjusting nut (B).
3. Pull off stop ring (A).
4. With a 24mm open-ended spanner, unscrew and remove thermoelement (Z).

Reassemble in the reverse order. In doing so, take care to ensure that the stop ring (A) is installed in its original position [groove (P) offset by 45°], see fig. [6].

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

**III. Ceramic headpart**

1. Remove shut-off knob (F).
2. Remove screw (D) and snap insert (H).
3. With a 17 mm open-ended spanner, unscrew and remove ceramic headpart (Y).

Reassemble in the reverse order.

**IV. Diverter assembly**, see fig. [7].

1. Unscrew and remove cap (N).
2. With an open-ended 7mm spanner, unscrew and remove nut (O) and remove diverter knob (I).
3. With an open-ended 13mm spanner, remove head nut (J) and remove circlip (T).
4. Pull off lock washer (K) from diverter spindle (L).
5. With a 12mm socket spanner, remove outlet nipple (M).

Reassemble in the reverse order.

**V. Unscrew and clean aerator (13 927)**, see fold-out page I.

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

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

Use **only genuine Grohe** replacement parts.

**Care**

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