

GROTHERM SMARTCONTROL
1 CONTROL THERMOSTATIC MIXING VALVE
MODEL #29136EN0

Pure Freude
an Wasser

GROHE

Product Specifications



Product description

Grotherm SmartControl

Thermostat for concealed installation with 1 valve

Requires rough-in-set for final installation GROHE Rapido SmartBox 35 602 000

Metal wall escutcheon with **GROHE QuickFix** (covered escutcheon and shaft sealing, covered fixing), retroactively 6° adjustable

GROHE SmartControl push for ON-OFF, turn for volume adjustment from EcoJoy to Full Flow, exchangeable symbols

GROHE TurboStat compact cartridge with wax thermoelement

GROHE SafeStop safety button at 38°C

GROHE SafeStop Plus Maximum temperature 43°C

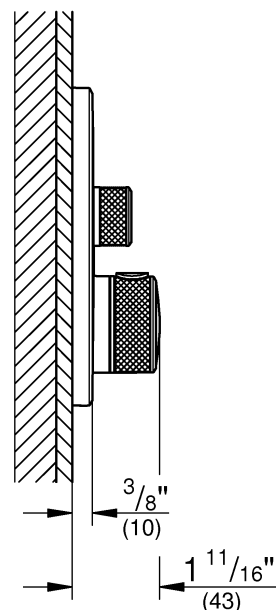
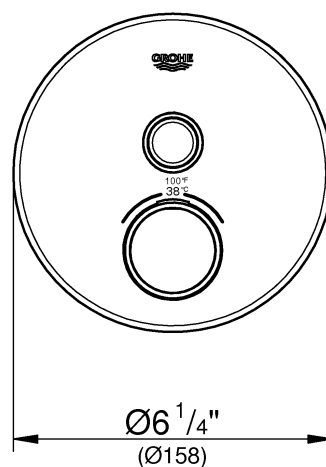
Built-in non return valves and dirt strainers

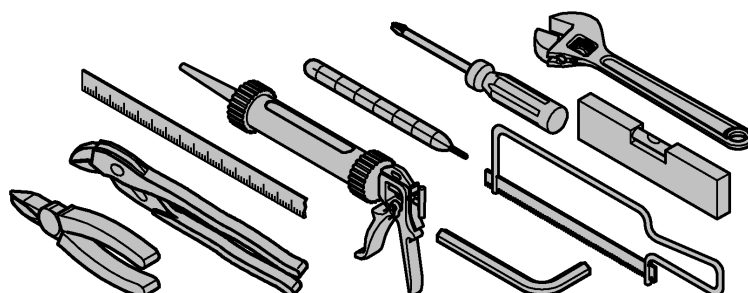
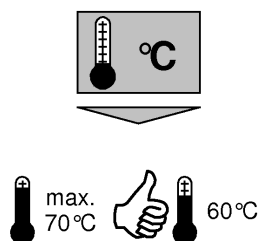
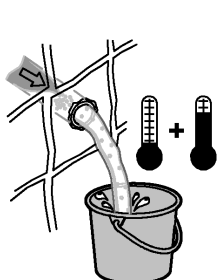
Without roughing-in-set

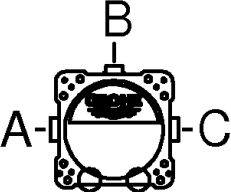
Flow performance:

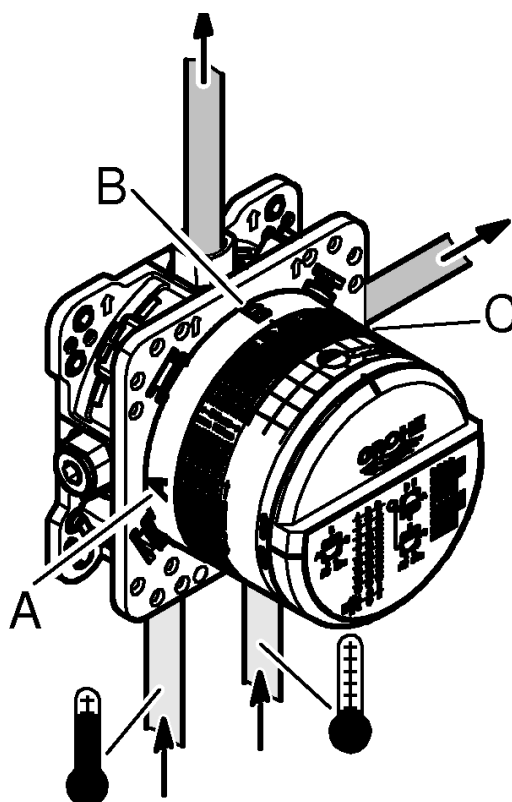
outlet B = 24 l/min

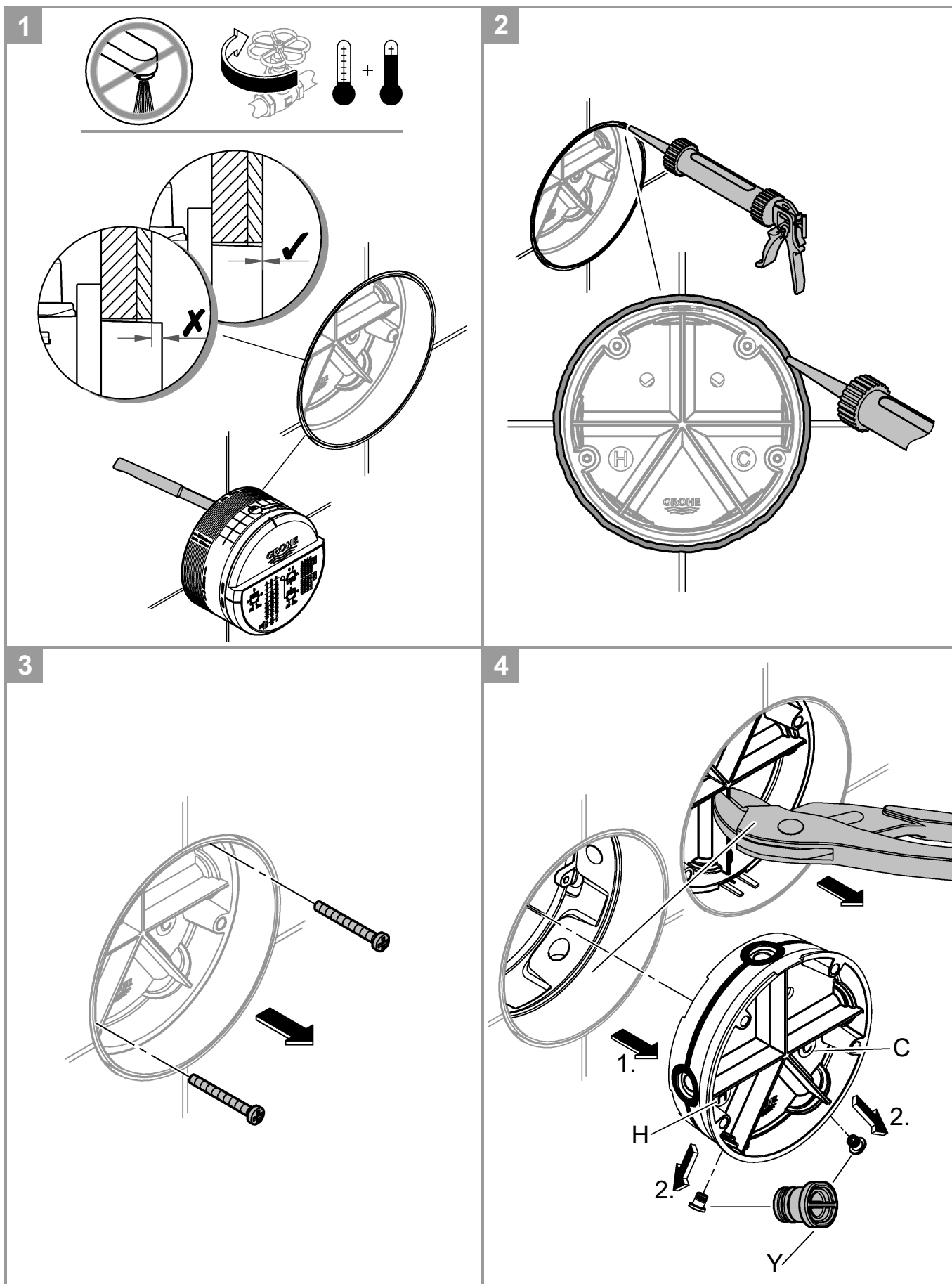
outlet C = 26 l/min



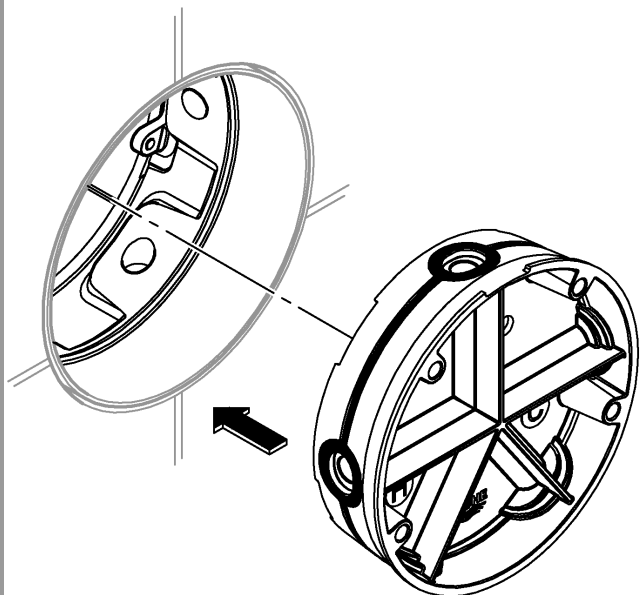


	kPa						
	100	200	300	400	500	600	
B	13,9	19,6	24	27,7	31	33,9	l/min
C	15	21,2	26	30	33,6	36,8	
B + C	16,7	23,7	29	33,5	37,4	41	

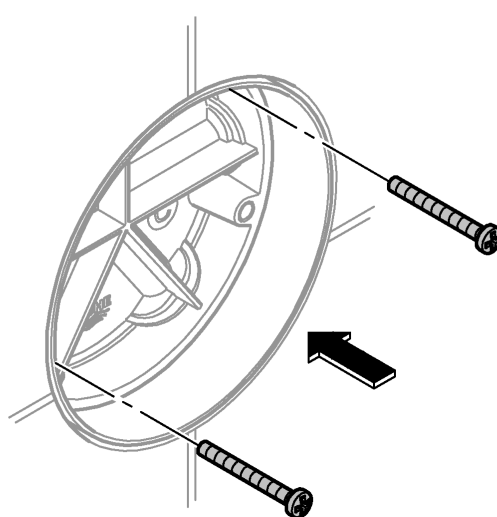




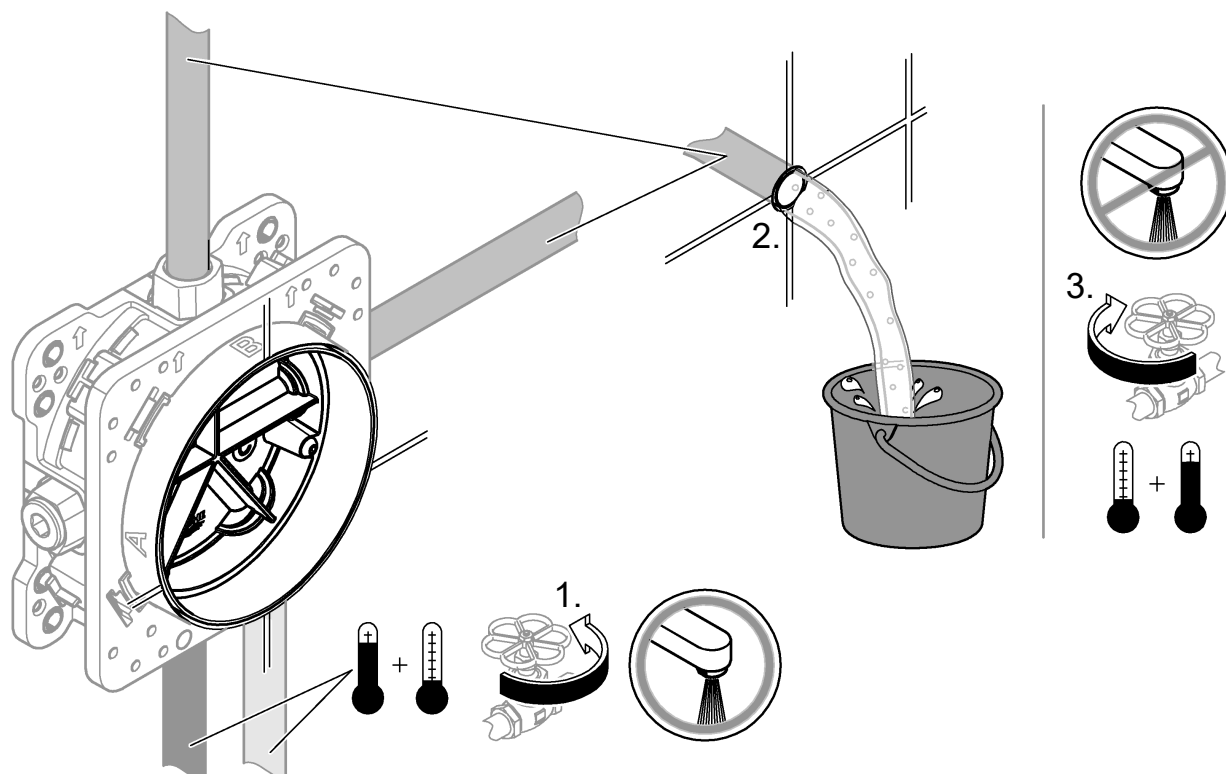
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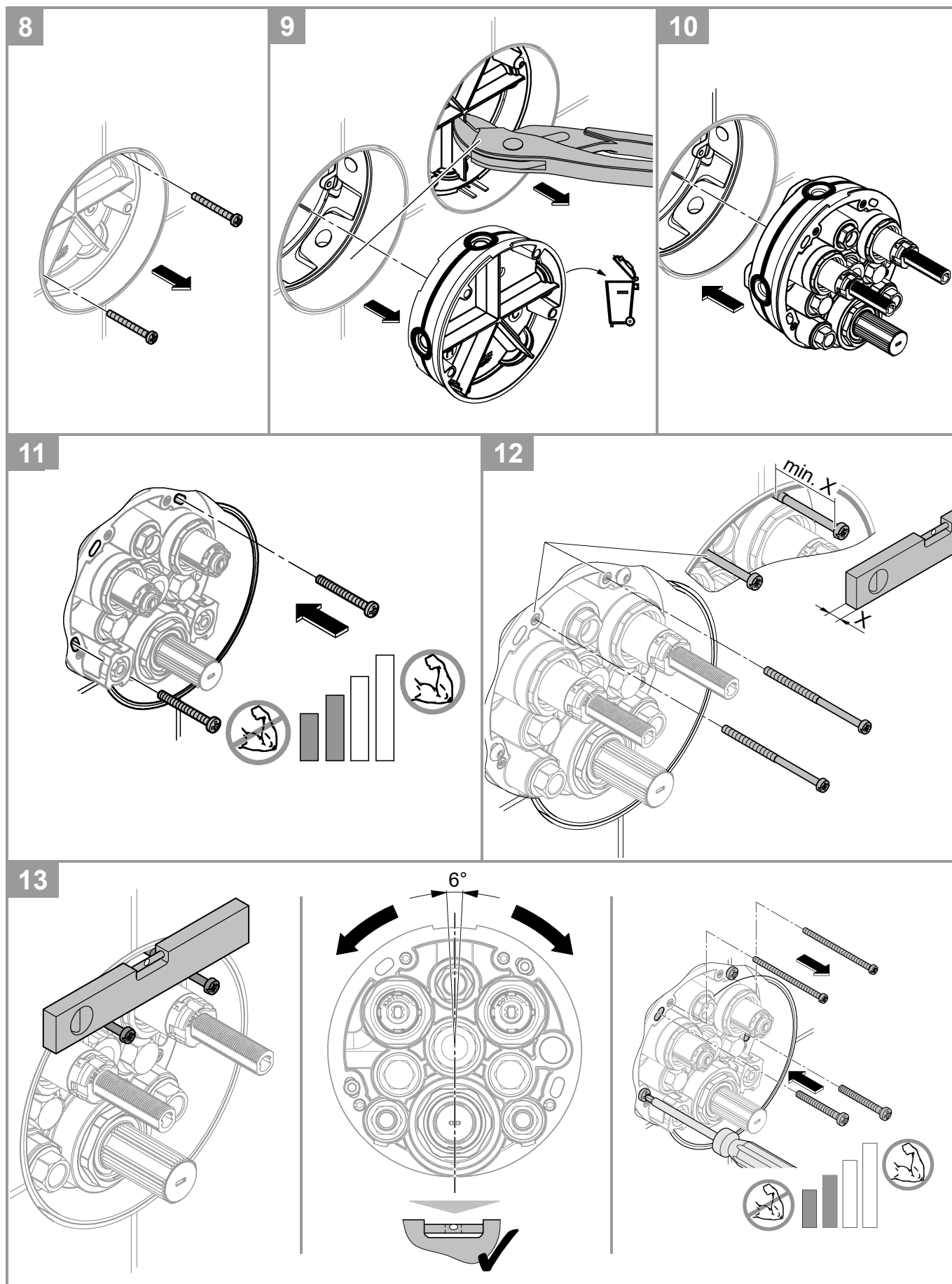


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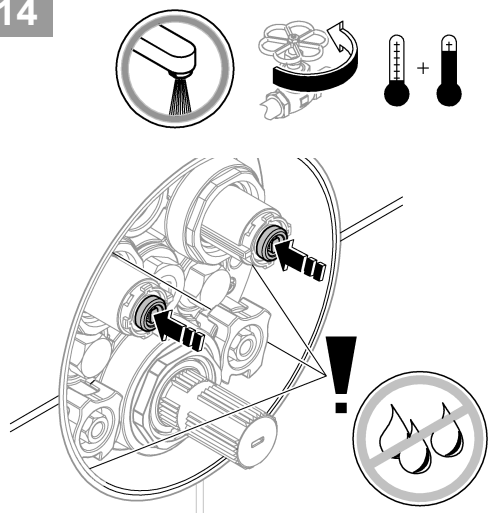


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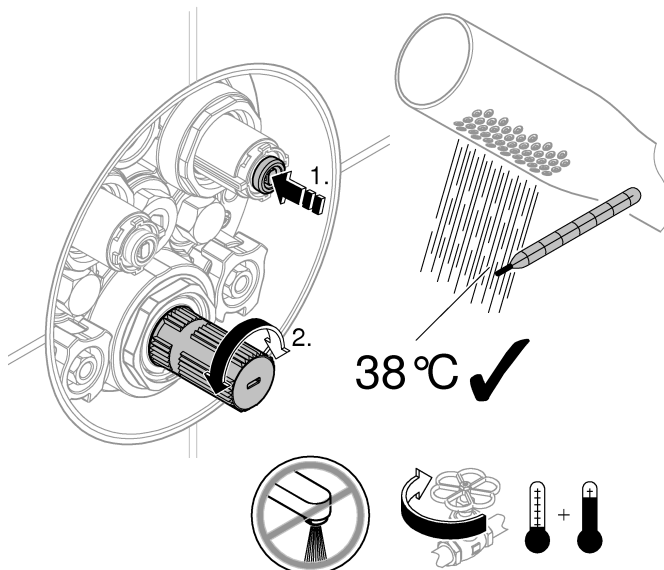




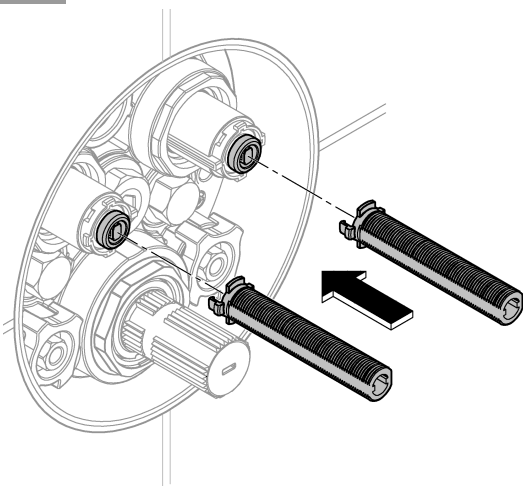
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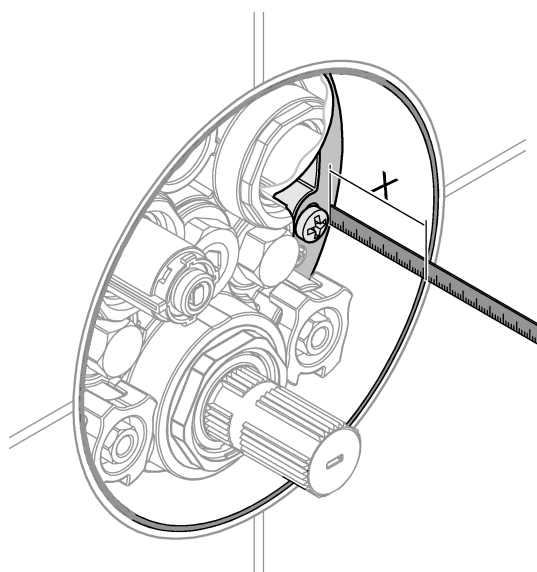
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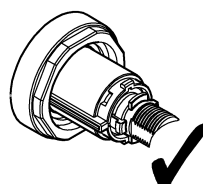
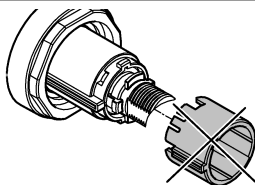


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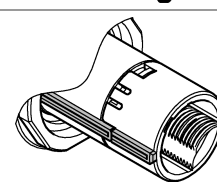
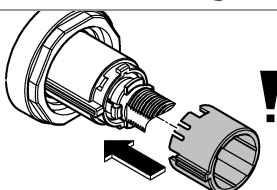


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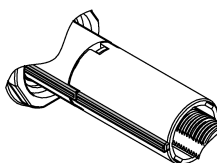
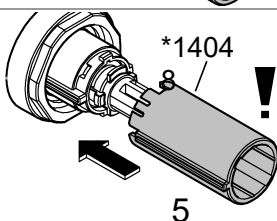
A
 $X < 1\frac{3}{4}"$
(40mm)



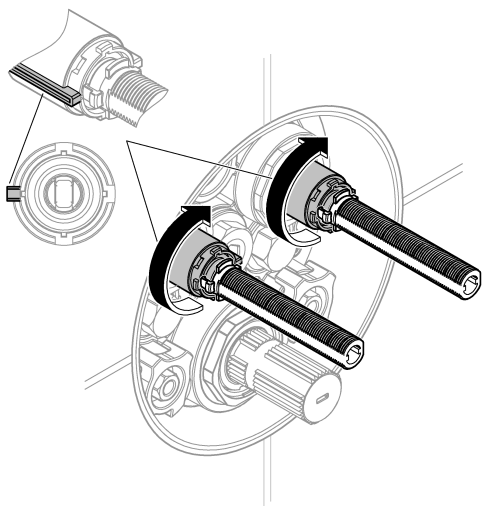
B
 $X = 1\frac{3}{4}" - 2\frac{3}{16}"$
(40mm - 55mm)



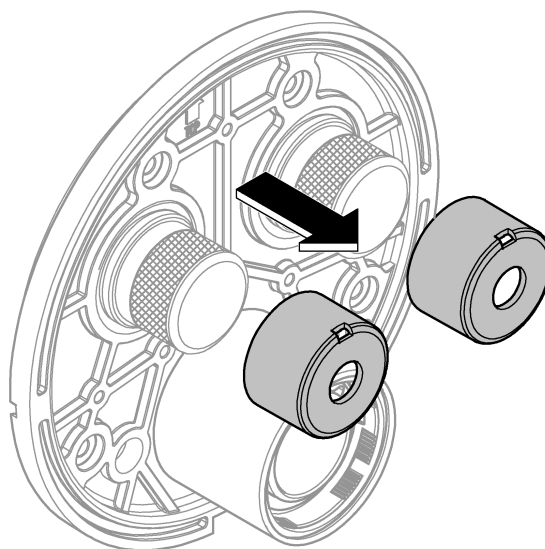
C
 $X > 2\frac{3}{16}"$
(55mm)



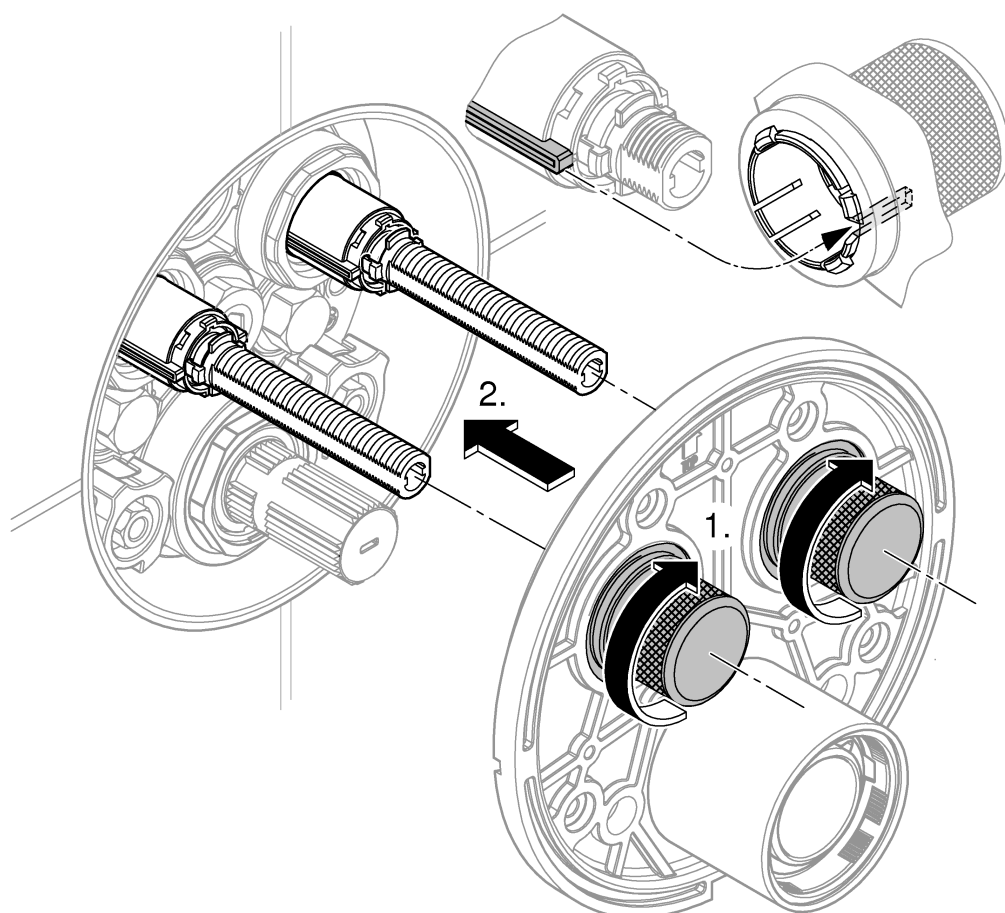
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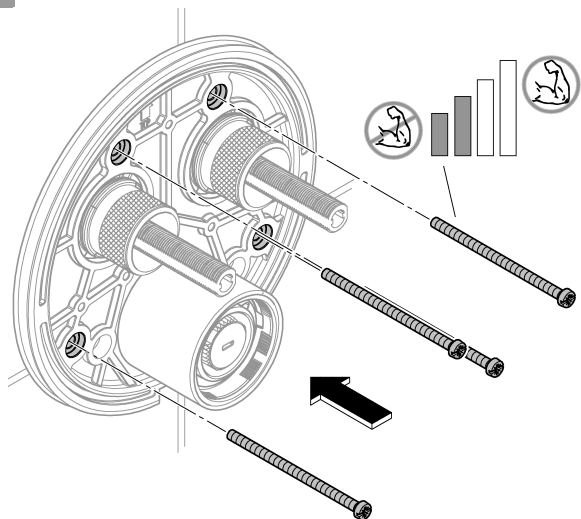
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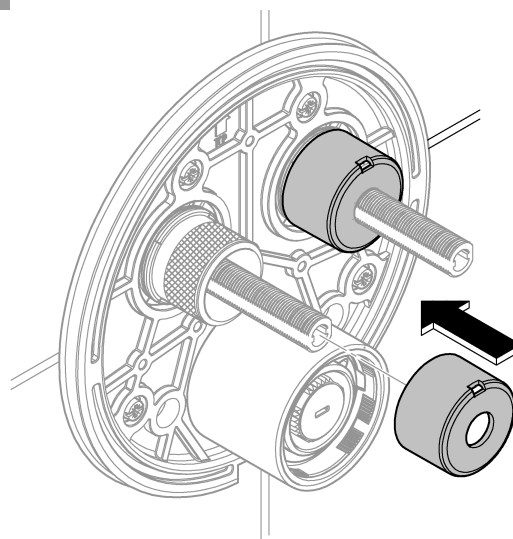
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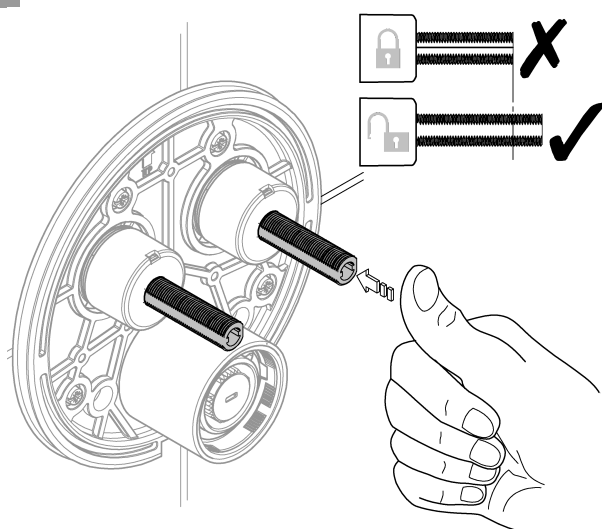
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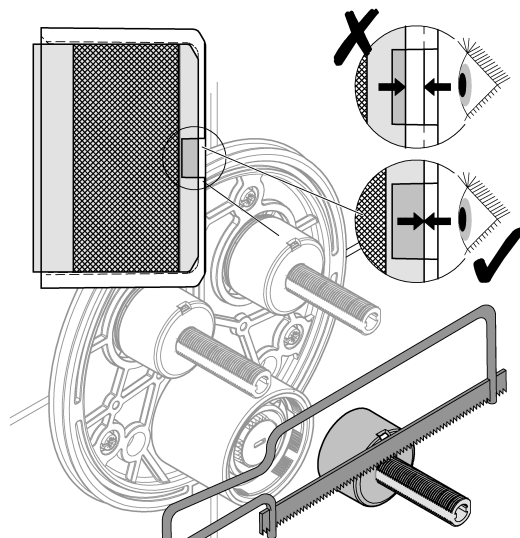
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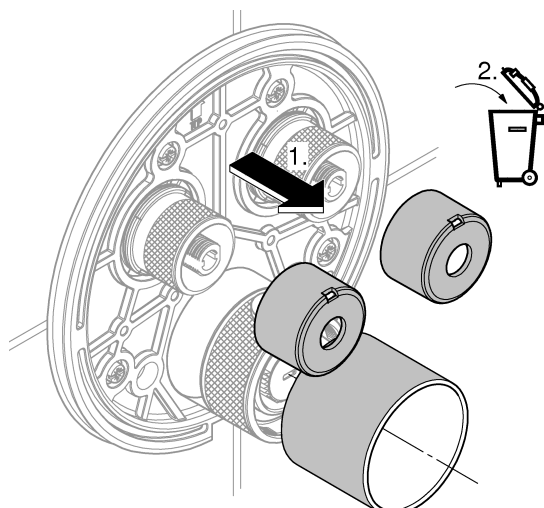
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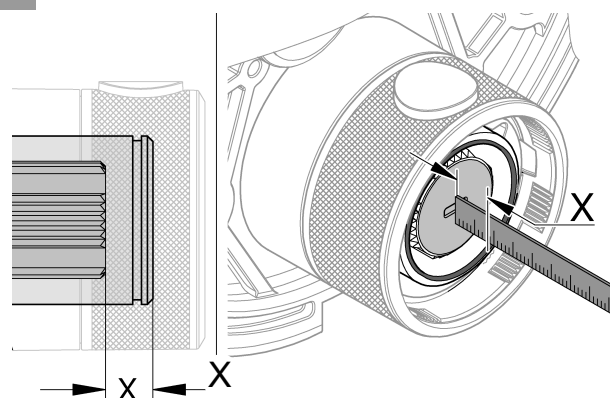
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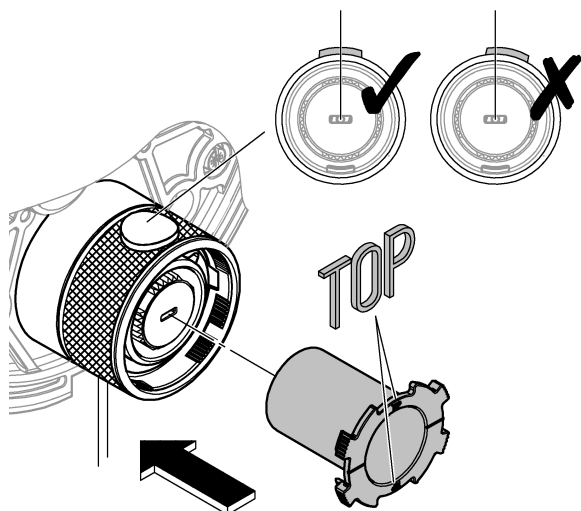
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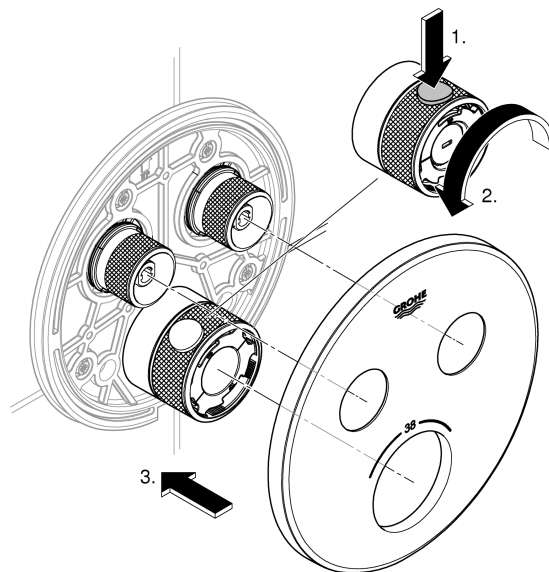
$X < 1\frac{3}{16}"$
(29,5) **28**

$X > 1\frac{3}{16}"$
(29,5) *14 048

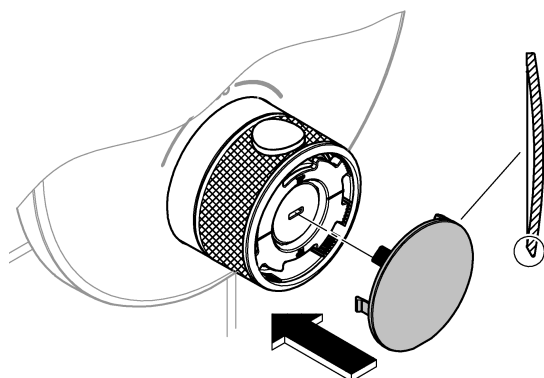
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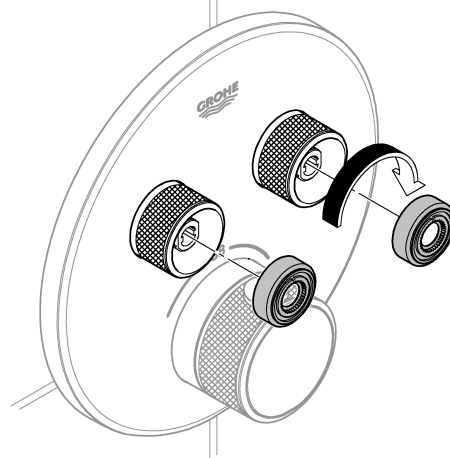
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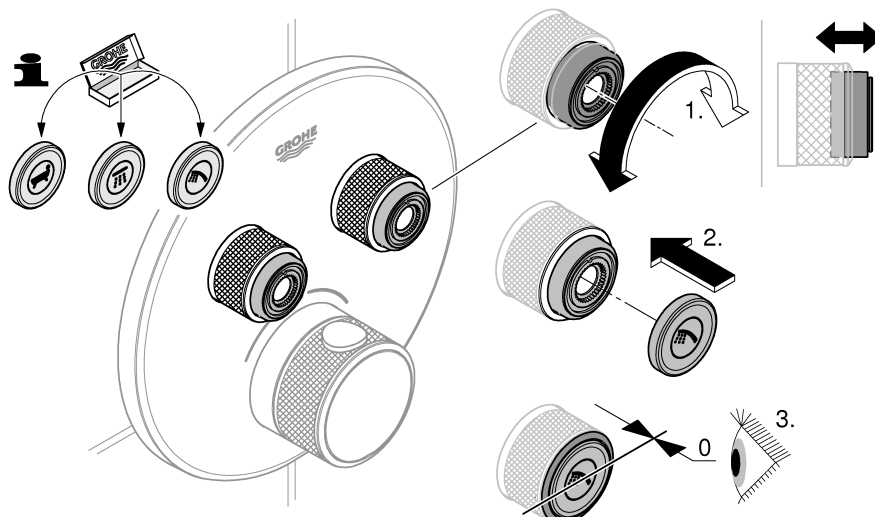
30



31



32



Safety information



Avoiding scalding

It is recommended that thermostatic devices able to limit the water temperature to 43 °C be installed at points of discharge with special attention to the outlet temperature (hospitals, schools, nursing and retirement homes). This product is equipped with a temperature end stop. It is generally recommended that the temperature of shower systems not exceed 38 °C in nurseries and specific areas in care homes. Use Grohtherm Special thermostats with special handles for facilitating thermal disinfection and with an appropriate safety end stop. Applicable standards (e.g. EN 806-2) and technical regulations for potable water must be observed.

Technical Data

- Flow pressure
- Minimum flow pressure without downstream resistances 50 kPa
- Minimum flow pressure with downstream resistances 100 kPa
- Dynamic pressure ratio 150:500 kPa
- Minimum flow rate 5 l/min
- Temperature
- Hot water supply max. 70 °C
- Recommended for energy saving 60 °C
- Thermal disinfection possible
- Safety stop 43 °C
- Hot water temperature at supply connection min. 2 °C higher than mixed water temperature

Flow rates without downstream resistances, see page 1. **These should be observed when dimensioning the outlet!**

The following special accessories are available:

- Extension 25mm (prod. no.: 14 048)
- An approved safety device is prescribed according to EN 1717 for combining with bath fillers and pop-up overflows (prod. no. 14 055)
- Isolating valves (prod. no.: 14 053)

Thermostat compact cartridge for exchanged water channels: Reversed connections, hot on right and cold on left, replace compact cartridge (prod. no.: 49 003)

Installation

This product must be installed in conformance with local codes e.g. AS/NZS 3500 series of standard!

- In order to flush, remove the plugs (Y), see page 2 Fig. [4].
- Open cold and hot water supply and check connections for watertightness!
- Alignment of functional unit by 6° possible.
- Measure valves, see page 5 Fig. [18]. For a dimension larger than 18mm, the enclosed extension must be used.

Adjusting to 38 °C

- Before the mixer is put into service if the mixed water temperature measured at the point of discharge varies from the desired temperature set on the thermostat, see page 6 Fig. [20].
- Every time following maintenance on the thermostatic compact cartridge.

Temperature limitation

The safety stop limits the temperature range to 38 °C. If a higher temperature is required, the 38 °C stop can be overridden by pressing the button.

Danger of frost damage

When the domestic water system is drained, the thermostats must be drained separately since non-return valves are installed in the hot and cold water connections.

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Installation Instructions

This thermostat is suitable for use with high pressure water applications. Using this product in conjunction with gravity-fed water heaters, low and unequal pressure supply systems, tempering valves & thermostatic mixing valves may result in unsatisfactory performance.

Suitable for High Pressure applications 150kPa – 500kPa

Care must be taken by the installing tradesperson to ensure connecting threads do not damage the flow controller when installing this product.

The installation tradesperson must ensure they install this product in accordance with AS/NZS 3500 and all other relating AS/NZS regulations that apply to the installation of this product.

Maximum static pressure of 500kPa.

For applications where 500kPa static pressure is exceeded, a suitably certified pressure limiting valve must be installed to prevent high pressure damaging this product.

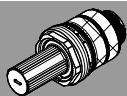
All servicing and maintenance must be carried out with accordance to AS/NZS3500 and AS4032 standards.

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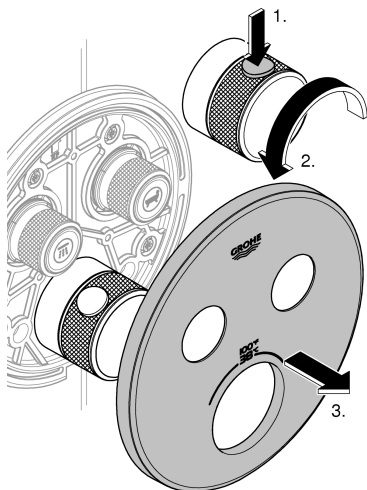
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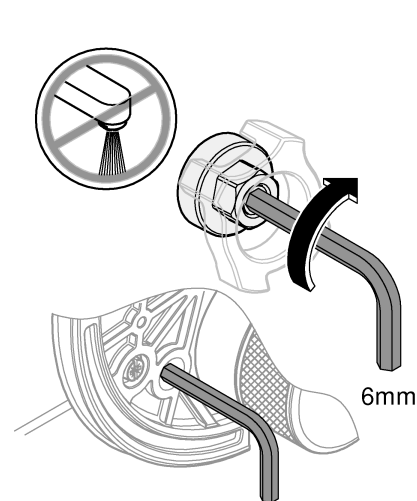
Servicing Instructions



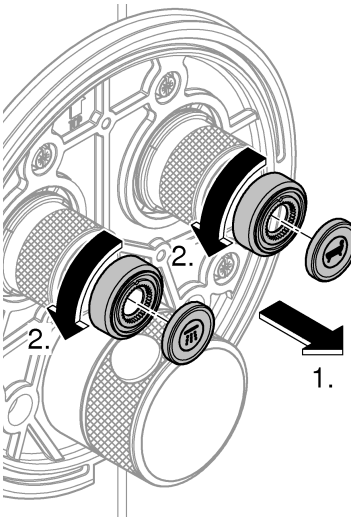
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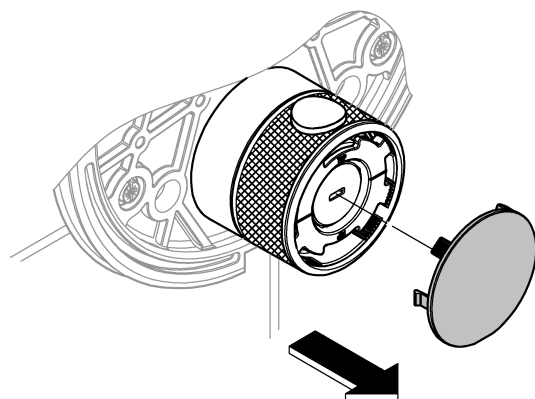
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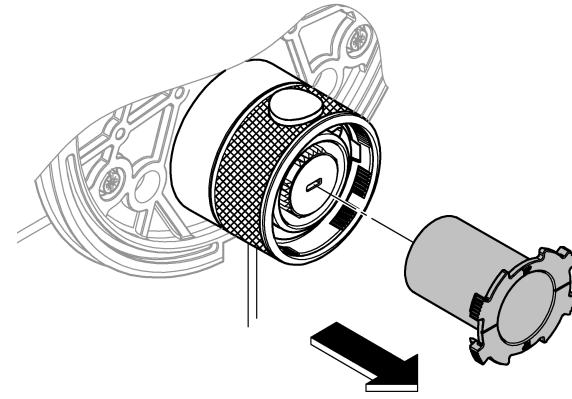
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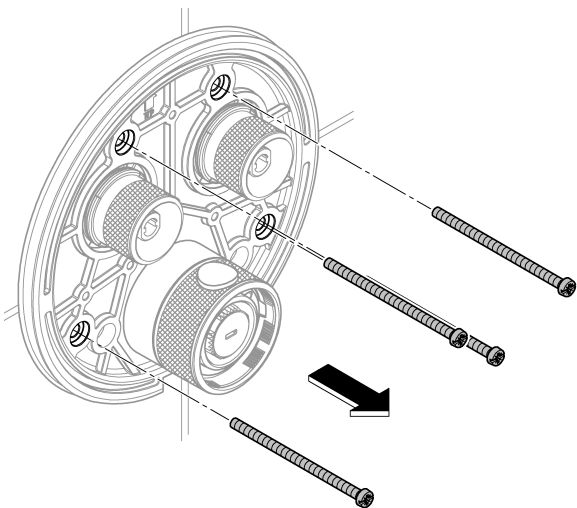
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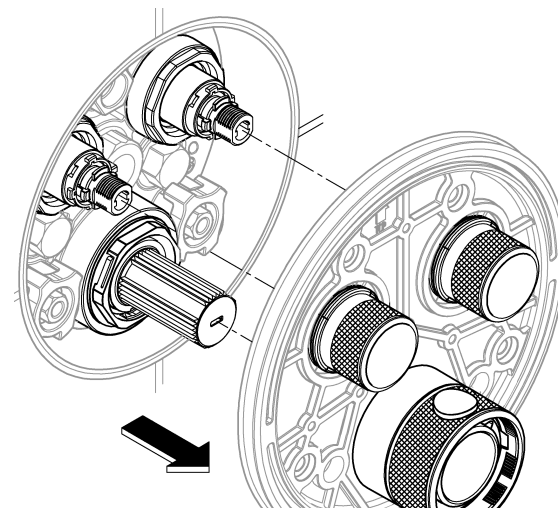
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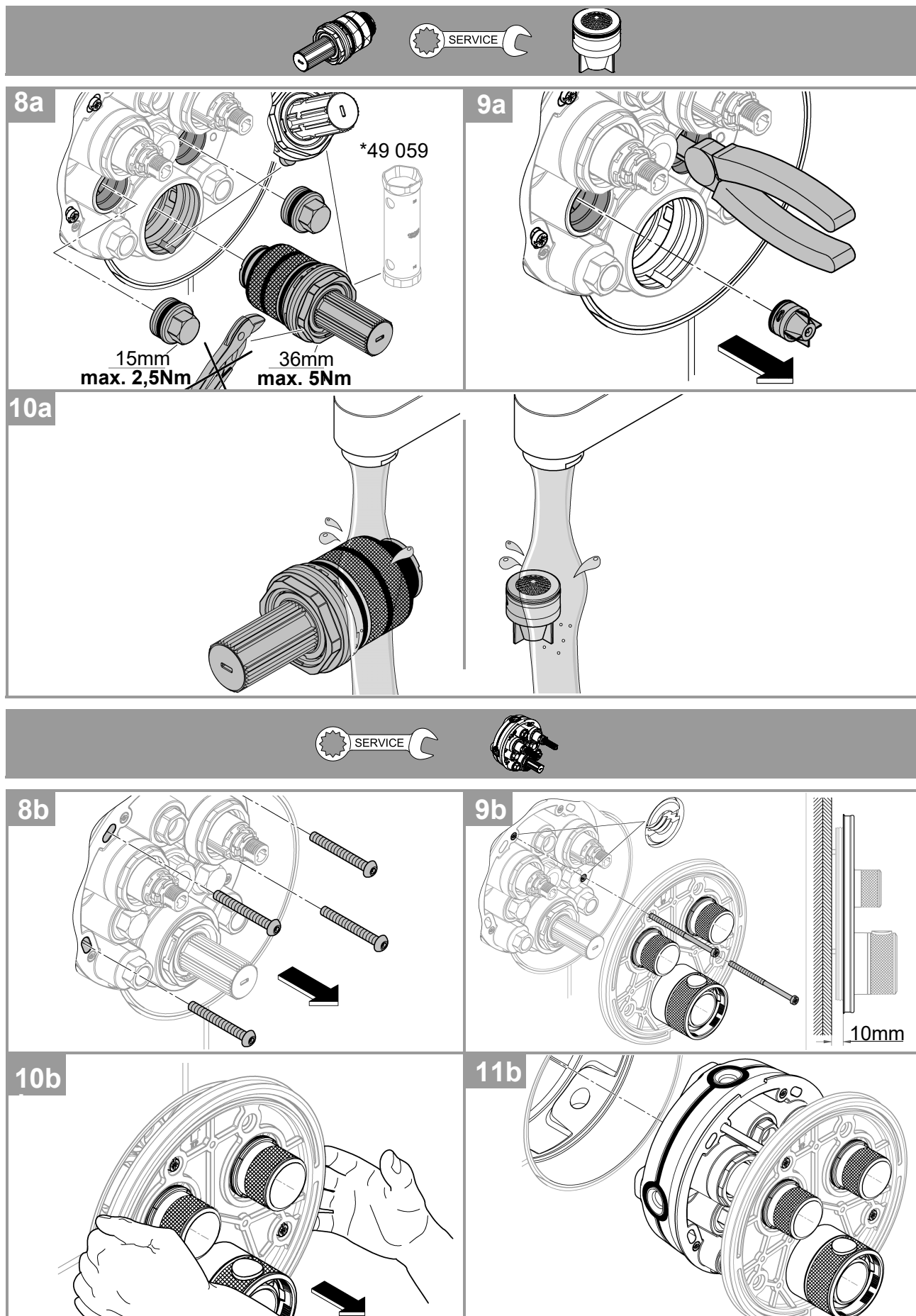


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Servicing Instructions

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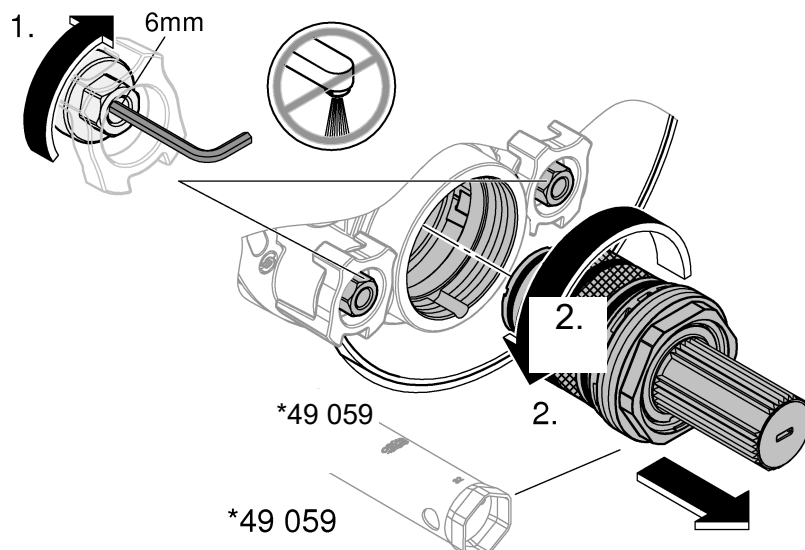
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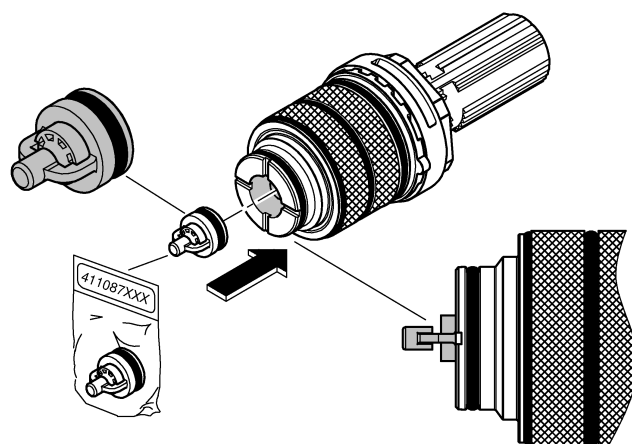
Servicing Instructions

Low-Flow solution / Limiteur de débit / Limitador de caudal ► 1.8gpm / 6,8l/min

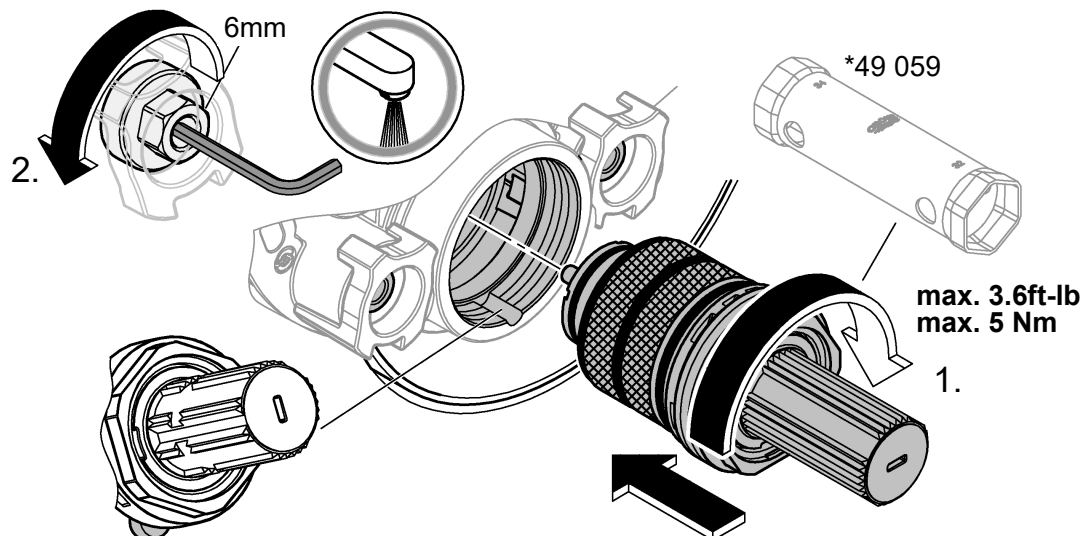
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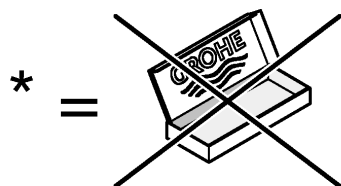
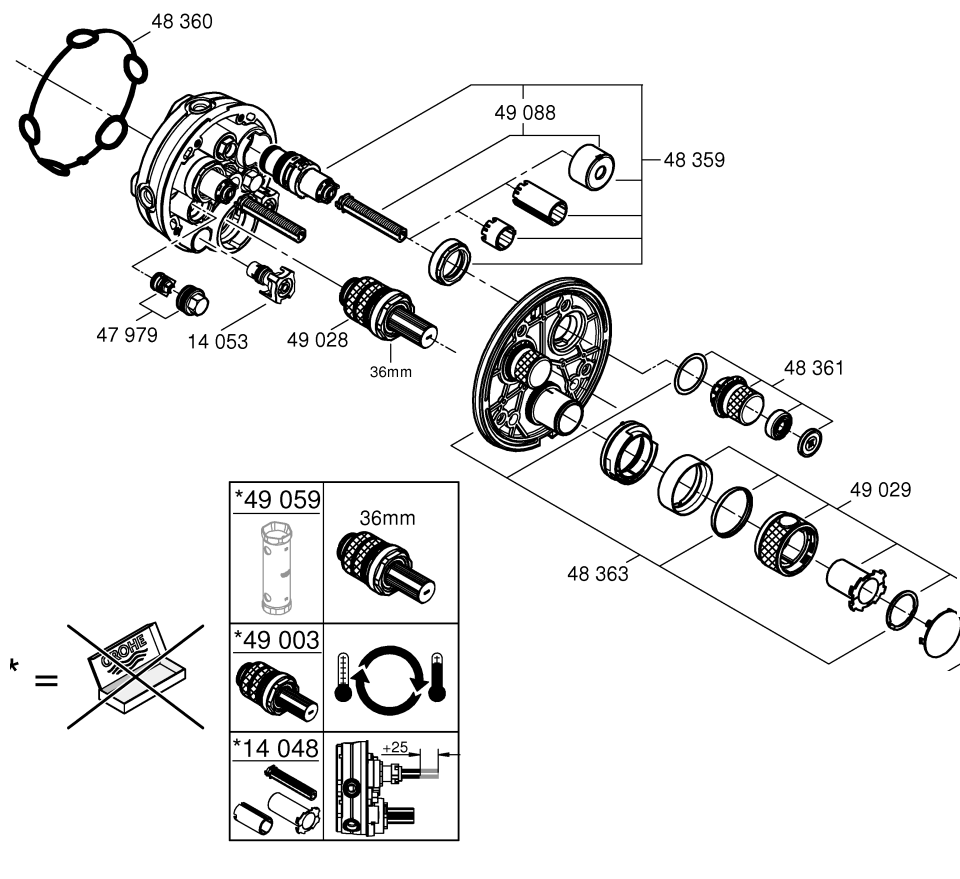
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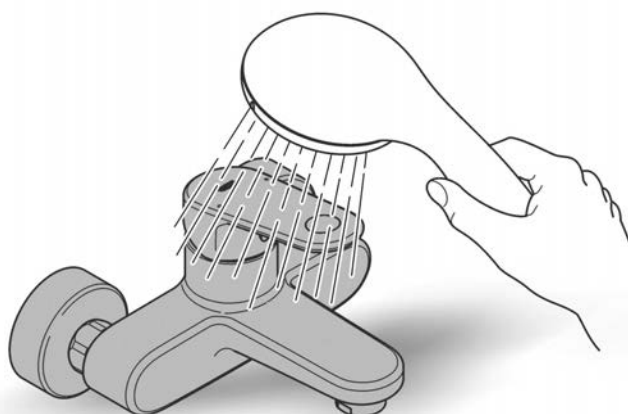
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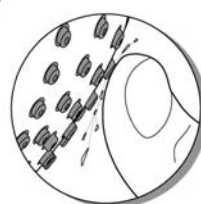


*49 059	36mm
*49 003	
*14 048	+25

48166000



SpeedClean



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an Wasser



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