



Oras

Installation and maintenance guide



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2016:1



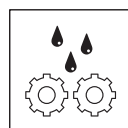
4-5



6-15



16-17



18-21



22



7160

EN 1111

I (ISO 3822)

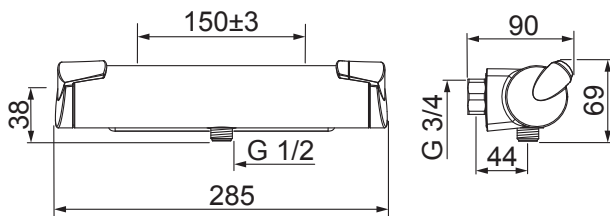
100 - 1000 kPa

0.27 l/s (300 kPa)

160 kPa (0.2 l/s)

0.21 l/s (300 kPa) Eco

max. +80°C



mpi.oras.com/7160

7140

EN 1111

I (ISO 3822)

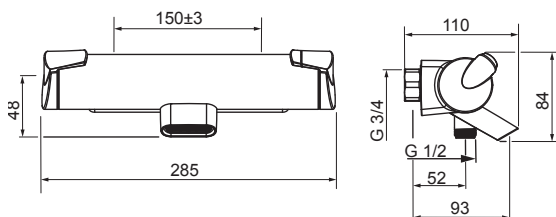
100 - 1000 kPa

0.33 l/s (300 kPa), 300 kPa (0.3 l/s) ↗

0.23 l/s (300 kPa), 230 kPa (0.2 l/s) ↘

0.16 l/s (300 kPa) Eco ↗ ↘

max. +80°C



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7149

EN 1111

I (ISO 3822)

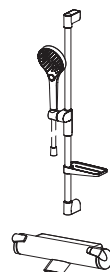
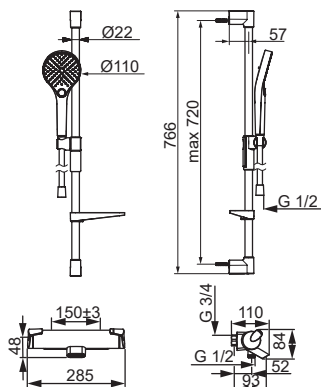
100 - 1000 kPa

0.30 l/s (300 kPa), 300 kPa (0.3 l/s)

0.23 l/s (300 kPa), 230 kPa (0.2 l/s)

0.16 l/s (300 kPa) Eco ↗ ↘

max. +65°C



STF VTT-RTH-00330-15

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7192

EN 1111

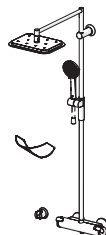
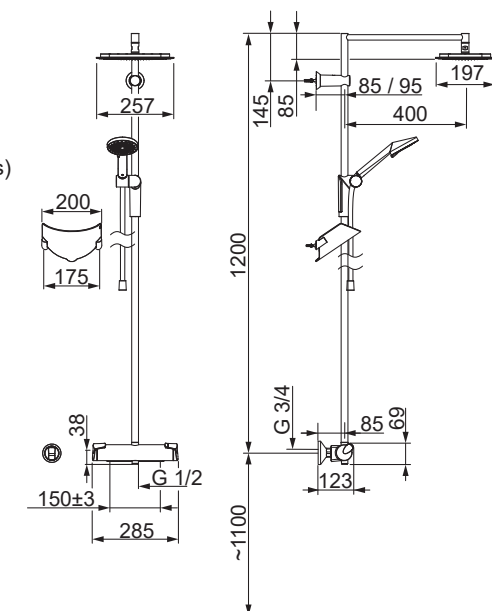
I (ISO 3822)

100 - 1000 kPa

0.27 l/s (300 kPa), 160 kPa (0.2 l/s)

0.21 l/s (300 kPa) Eco

max. +65°C



VA 1.43/20446

STF VTT-RTH-00330-15

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7193

EN 1111

I (ISO 3822)

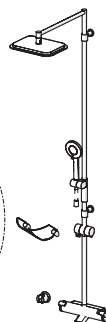
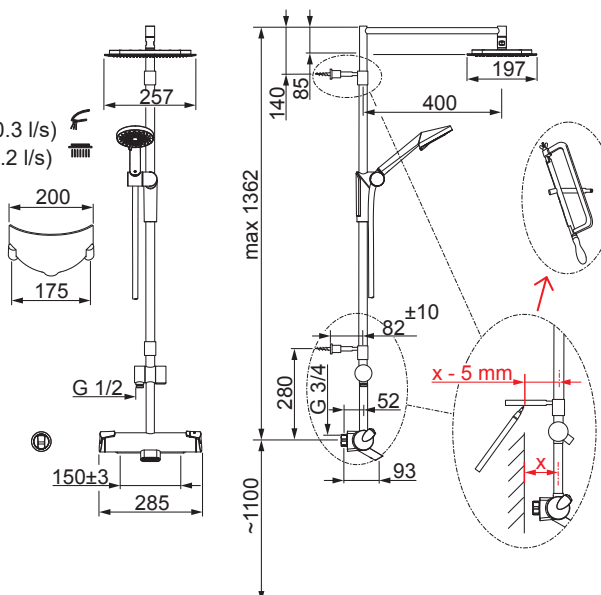
100 - 1000 kPa

0.33 l/s (300 kPa), 250 kPa 0.3 l/s

0.2 l/s (300 kPa), 300 kPa (0.2 l/s)

0.14 l/s (300 kPa) Eco

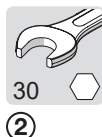
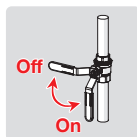
max. +65°C



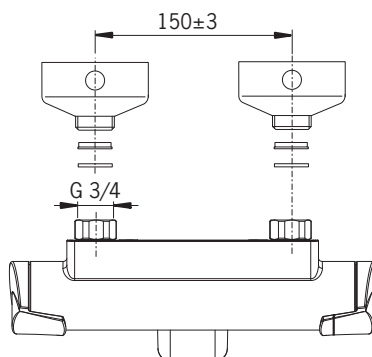
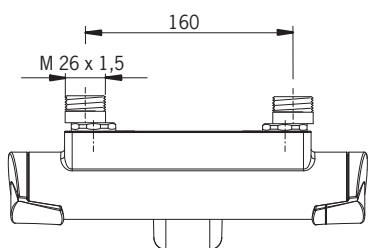
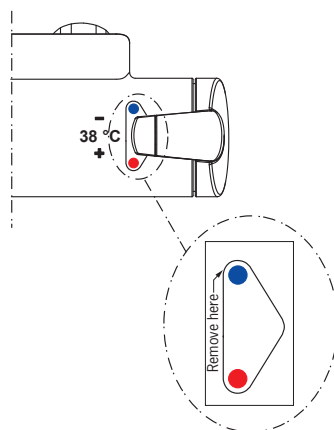
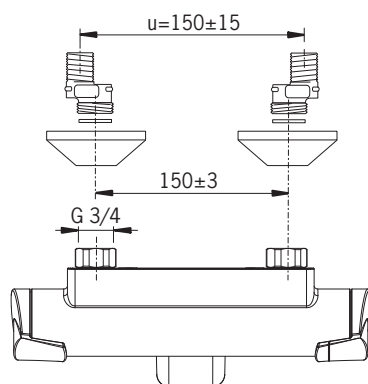
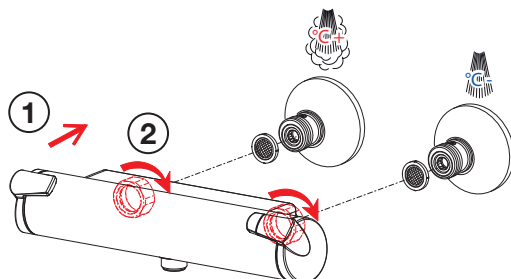
VA 1.43/20446

STF VTT-RTH-00330-15

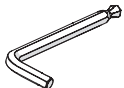
mpi.oras.com/7193



max.
1600 kPa

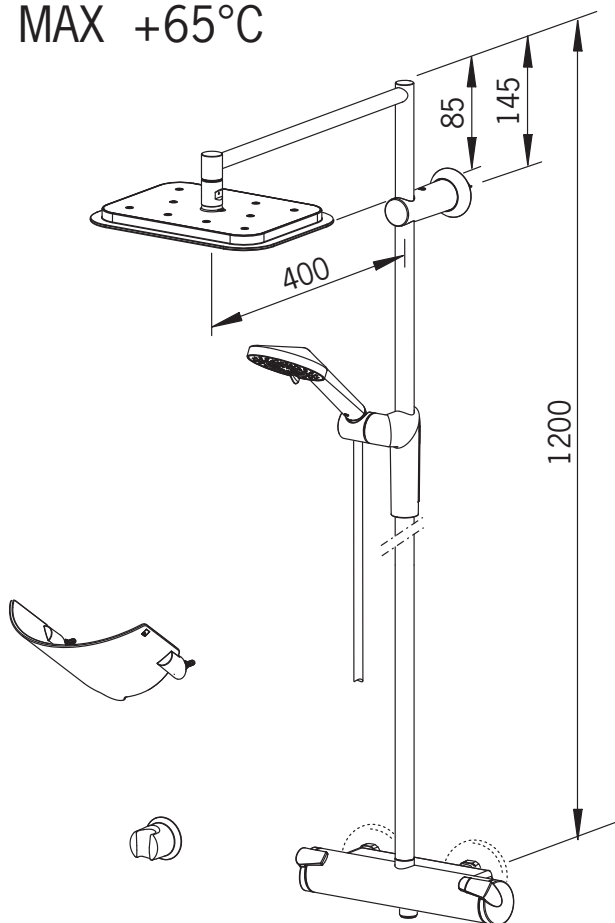


7192

- A  x 1
- B  x 1
- C  x 4
- D  x 4
- E  x 5
- F  x 1
- G  x 1
- H  x 1
-  GREASE x 1
-  x 1

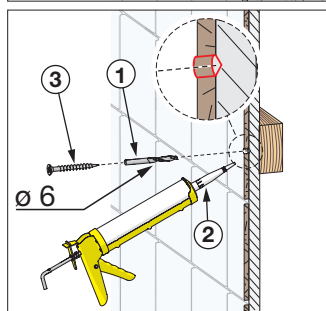
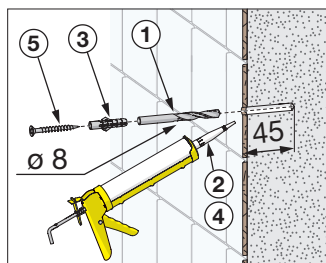
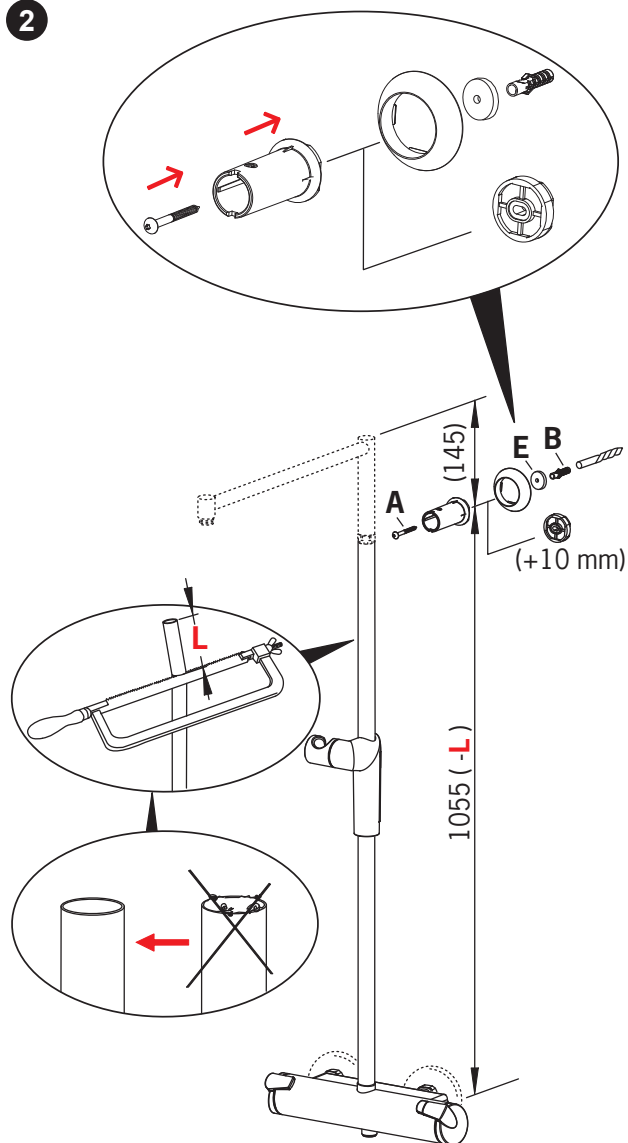
1

MAX +65°C





2





④

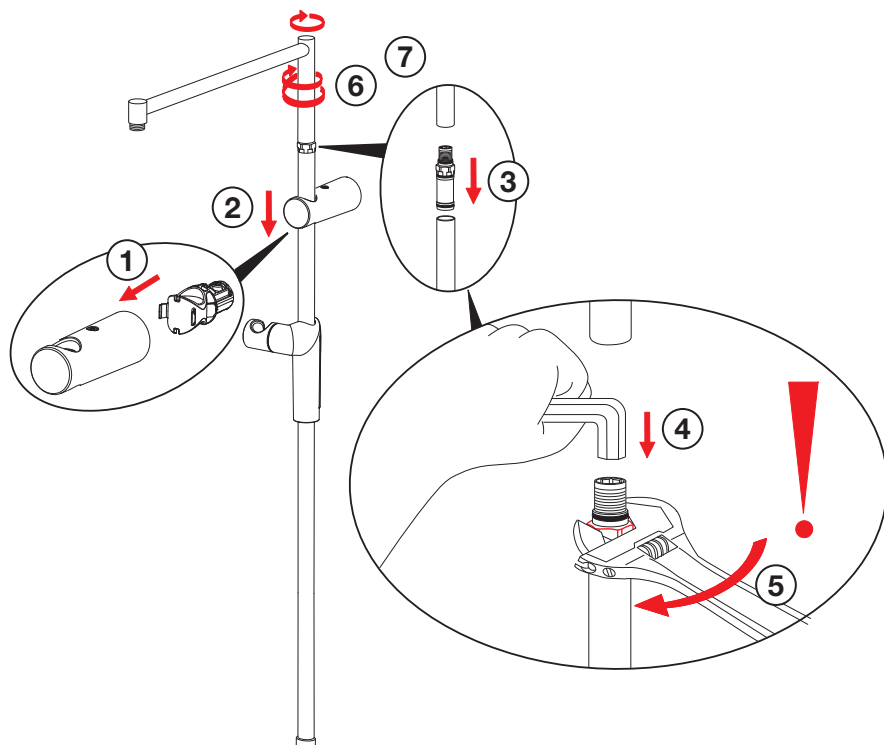


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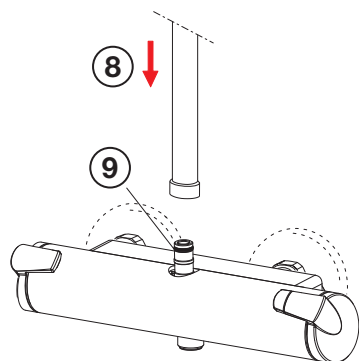


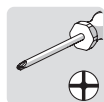
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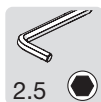


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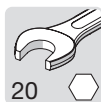




10 12

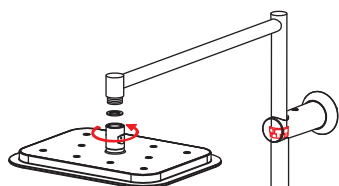


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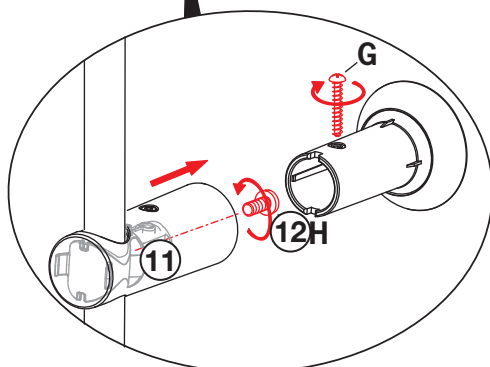
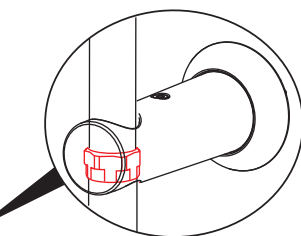


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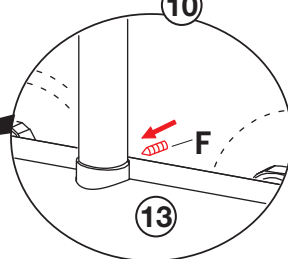
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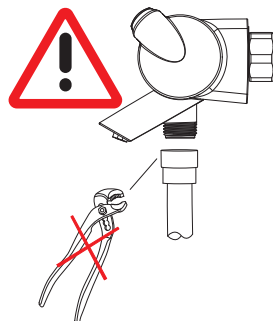
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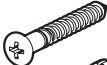
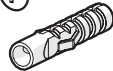
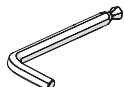
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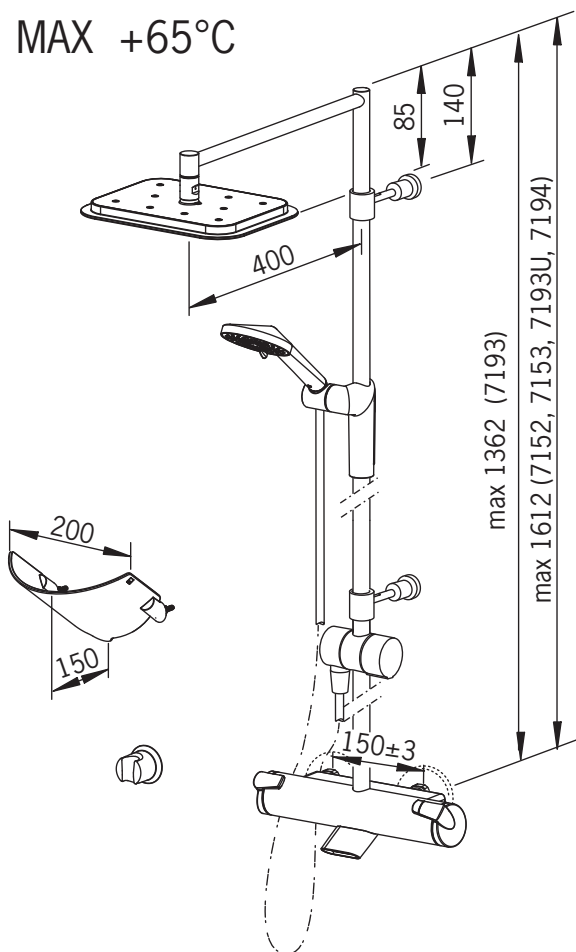
13



7193

- A  x 2
- B  x 2
- C  x 4
- D  x 4
- E  x 6
- F  x 2
-  x 1
-  x 1

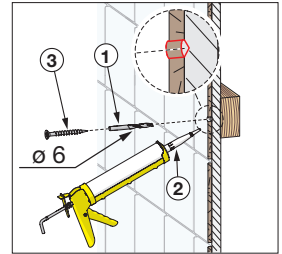
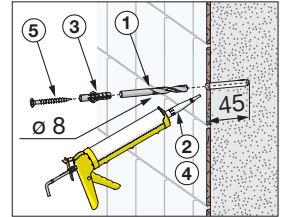
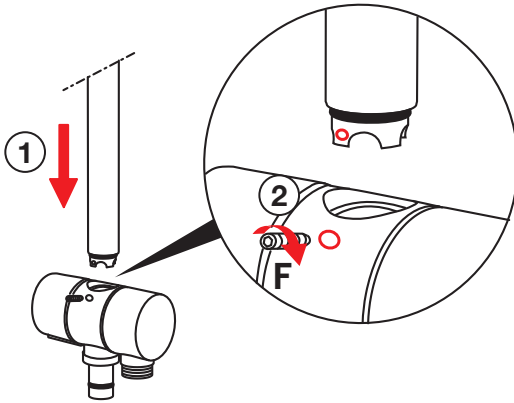
1 MAX +65°C



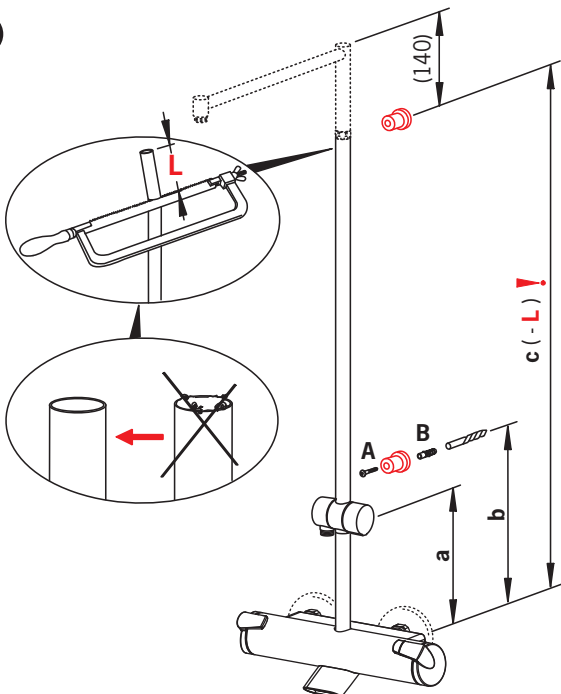


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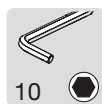
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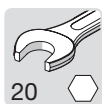
3



- a) 180 (7193)
- a) 430 (7152, 7153, 7193U, 7194)
- b) 280 (7193)
- b) 530 (7152, 7153, 7193U, 7194)
- c) 1222 (7193)
- c) 1472 (7152, 7153, 7193U, 7194)



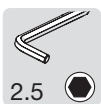
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⑥

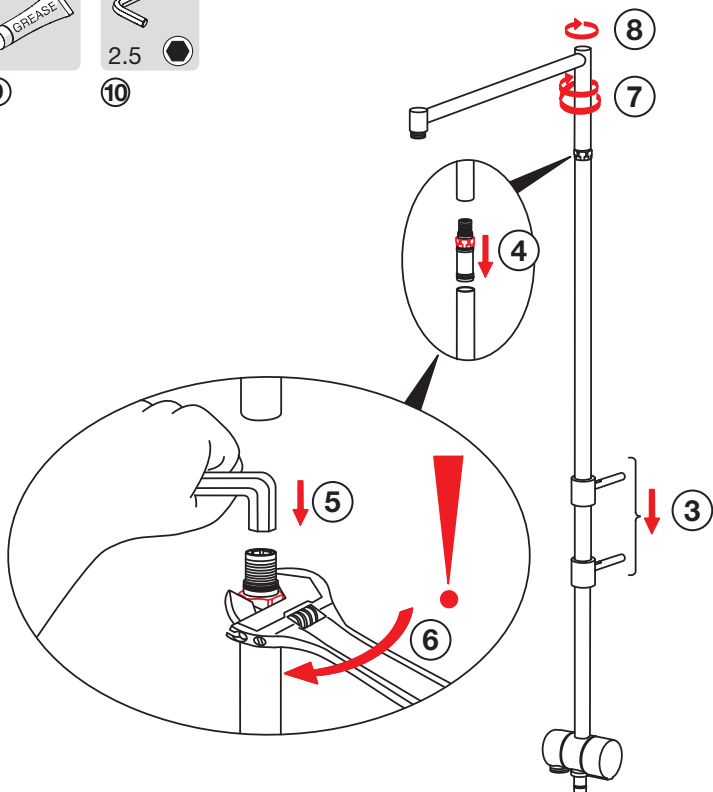


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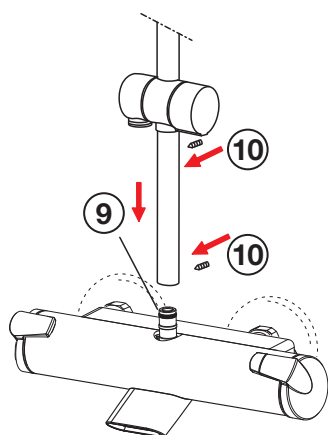


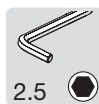
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④



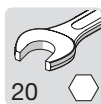
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2.5

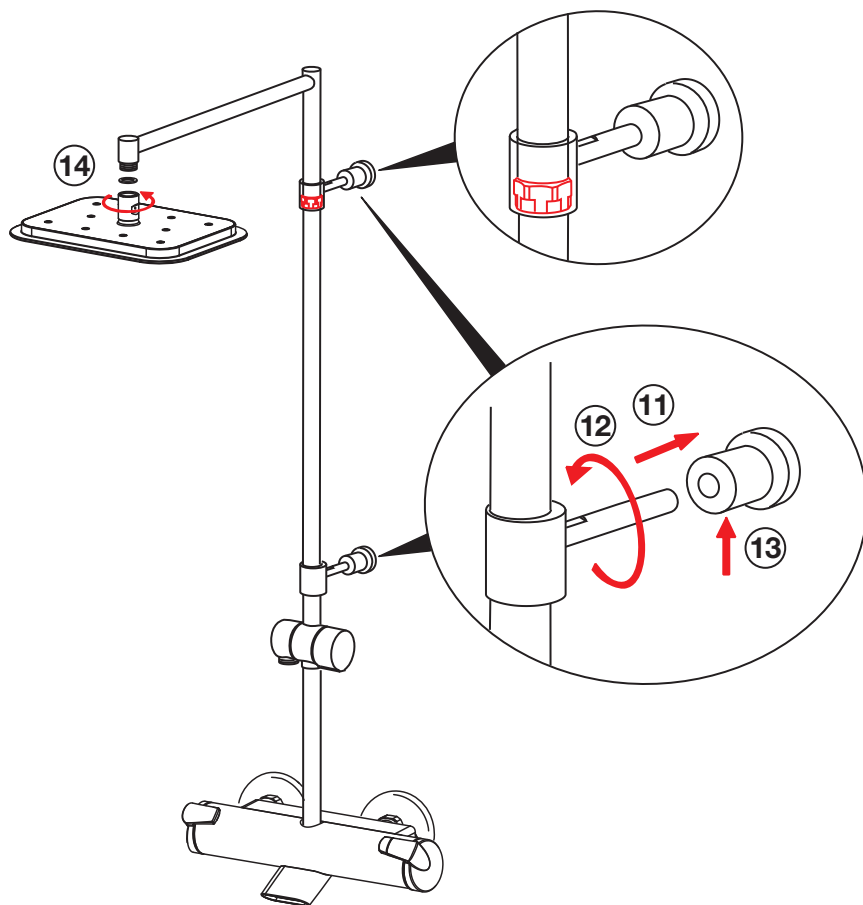
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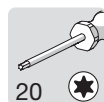


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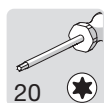
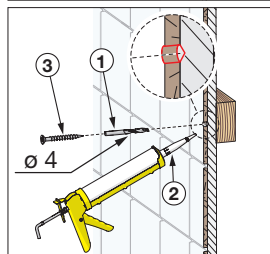
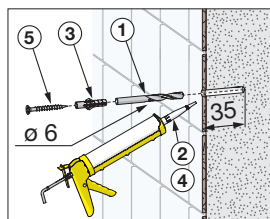
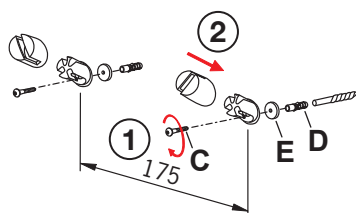
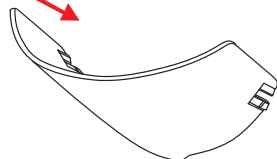
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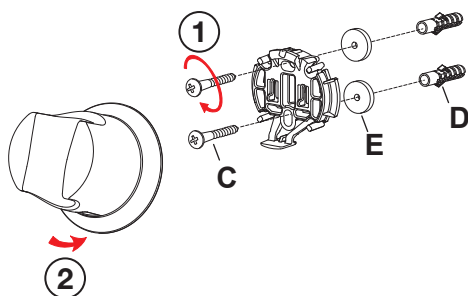
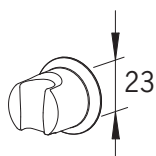




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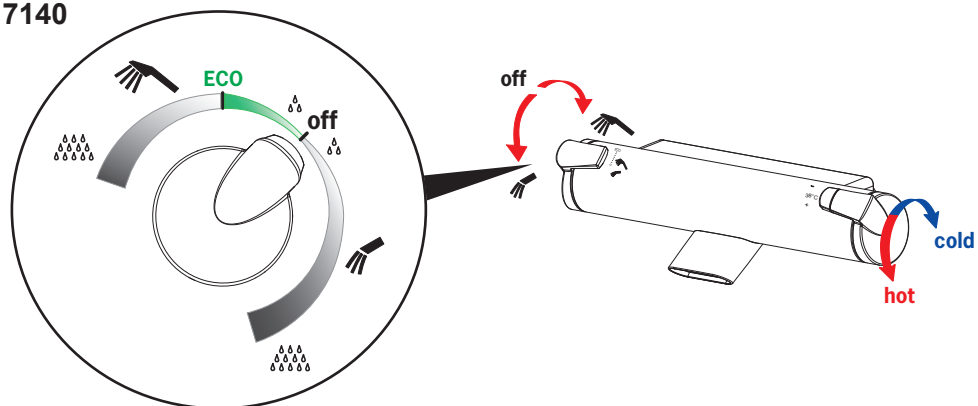


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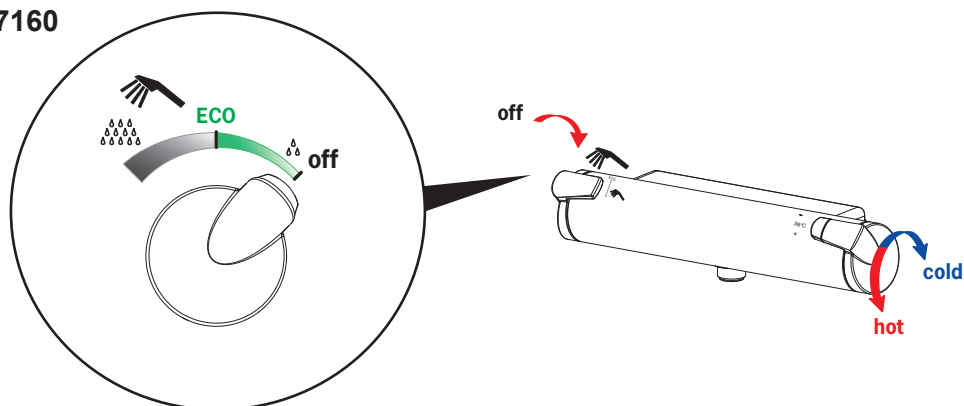




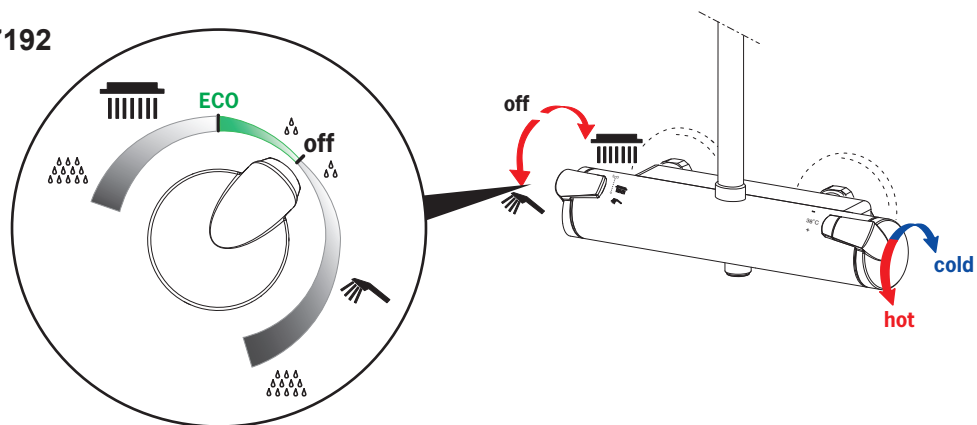
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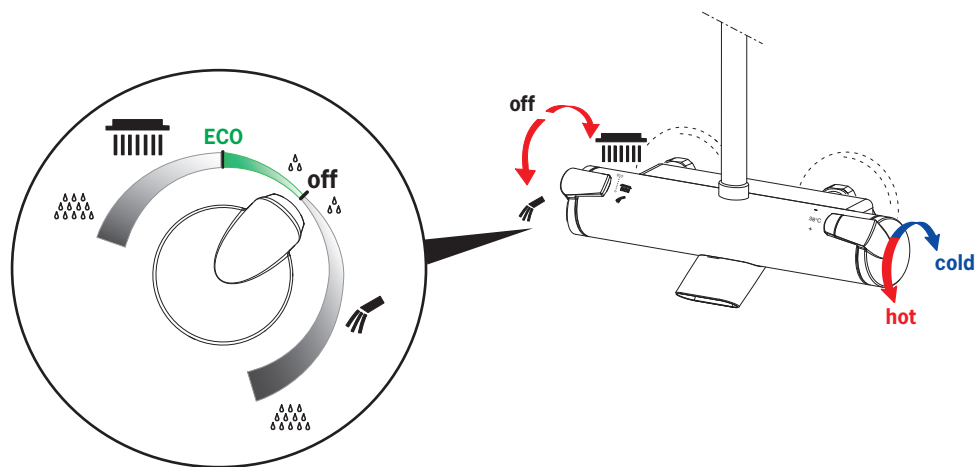
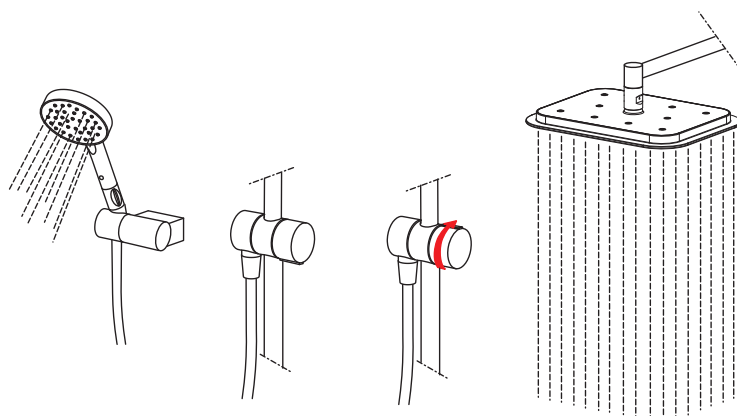
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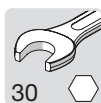
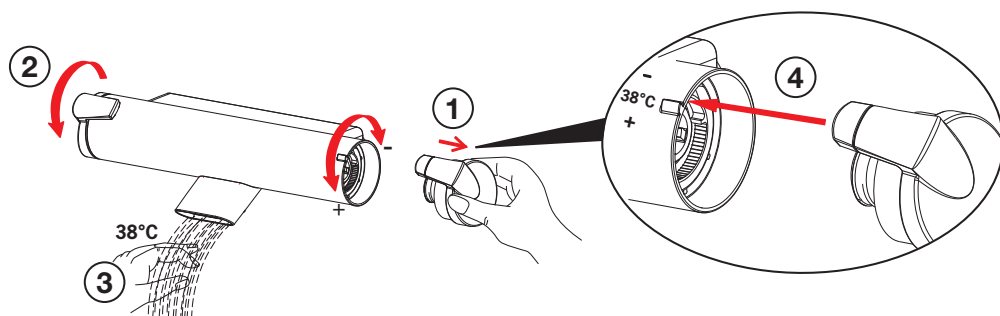


7192



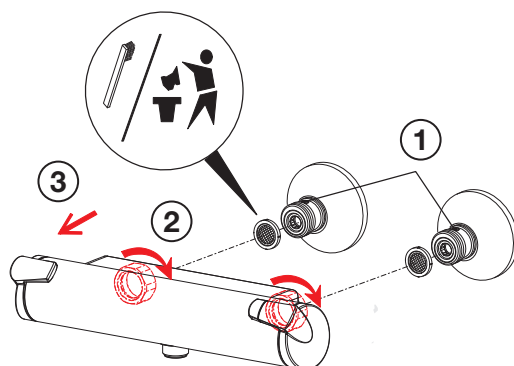
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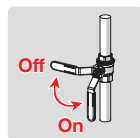




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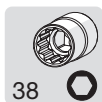




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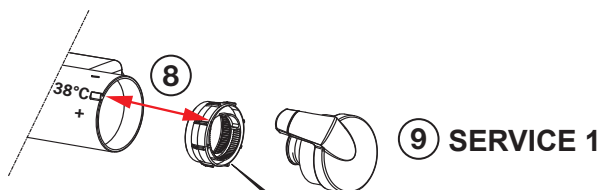
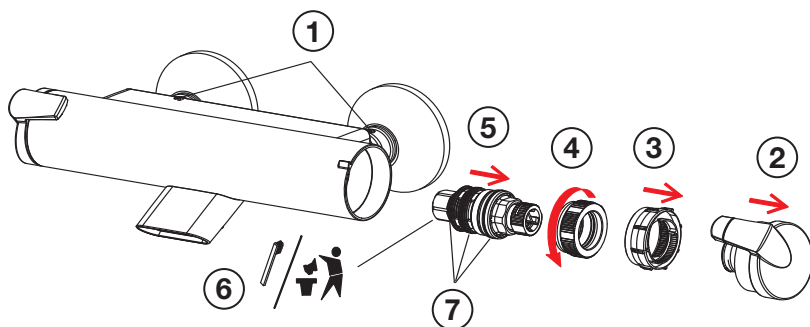
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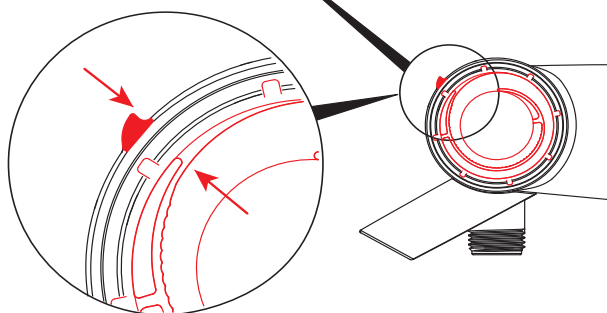
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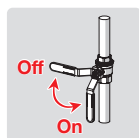


⑨ SERVICE 1





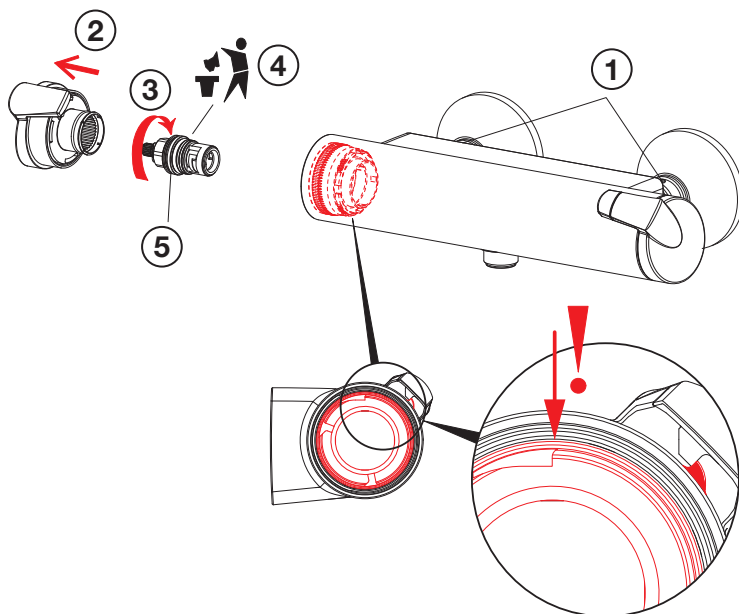
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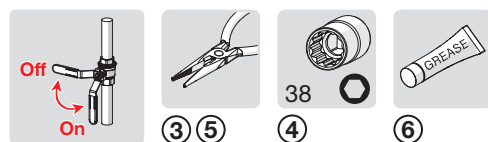
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③

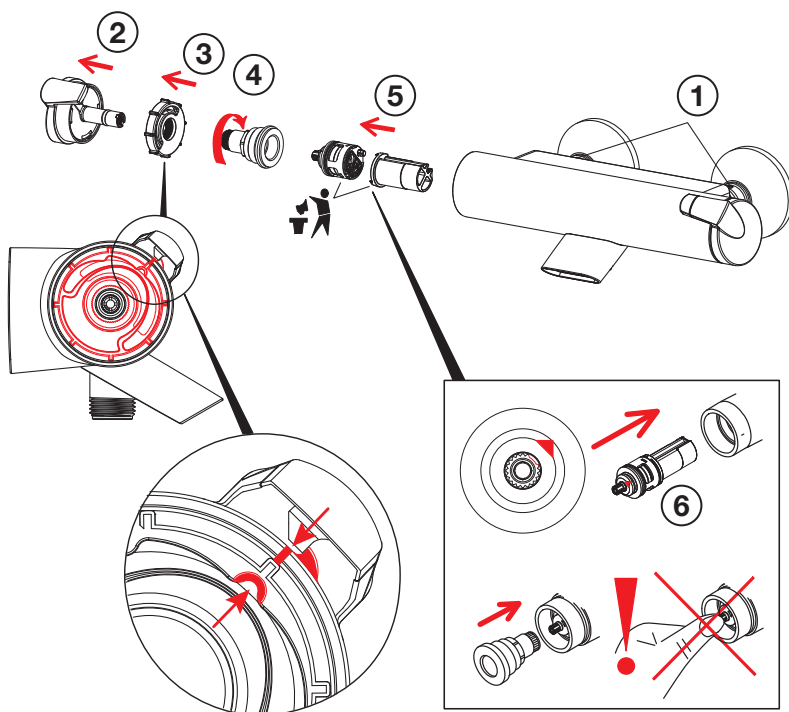
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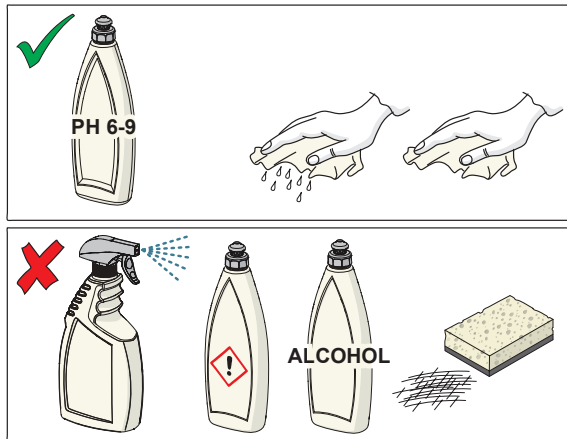
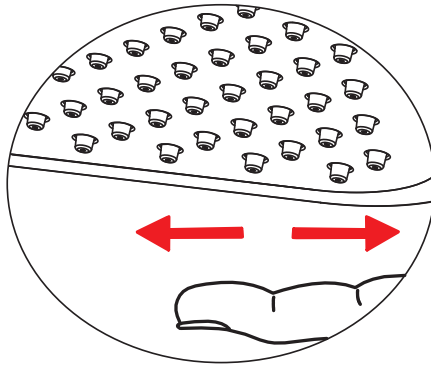


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About Oras Group

Oras Group is a significant European provider of sanitary fittings: the market leader in the Nordics and a leading company in Continental Europe.

The company's mission is to create the smartest water experiences for everyone and its vision is to become the Perfect Flow Company.

The Group has two strong brands, Oras and Hansa. Oras Group is owned by Oras Invest, a family company, and an industrial owner.

The domicile of Oras Ltd, the parent company of the Group, is located in Rauma, Finland, and the Group has two manufacturing sites: Olesno (Poland) and Rauma (Finland).

The Group operates with its own staff in 17 markets. Oras Group's net sales were 233.5 million euros in 2021 and at the end of the period the company employed 1255 people.

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