



Oras

Installation and maintenance guide



4-6



7-10



11



12-17

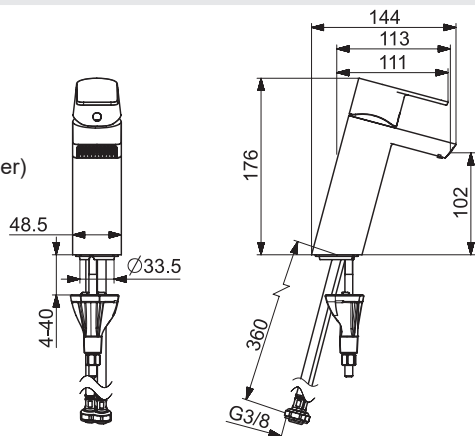


18



4810F

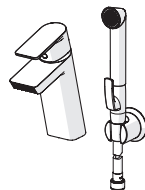
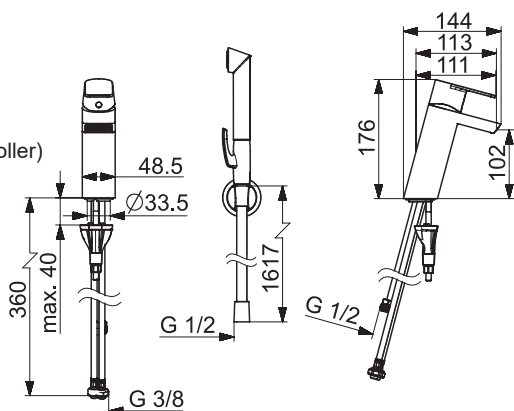
I (ISO 3822)
EN 817
50 - 1000 kPa
0.09 l/s (300 kPa w/ flow controller)
max. +70°C



mpi.oras.com/4810F

4812F

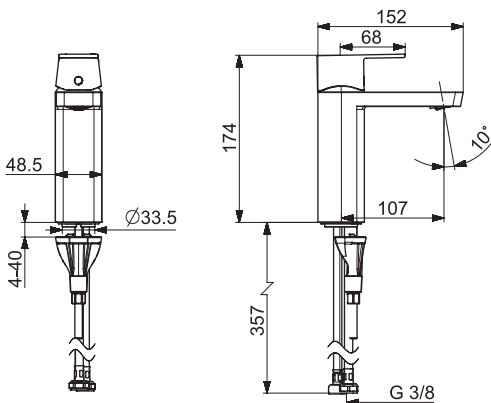
I (ISO 3822)
EN 817
50 - 1000 kPa
0.09 l/s (300 kPa w/ flow controller)
max. +70°C



mpi.oras.com/4812F

4805F

I (ISO 3822)
EN 817
50 - 1000 kPa
0.08 l/s (300 kPa w/ flow controller)
max. +70°C



mpi.oras.com/4805F

4806F

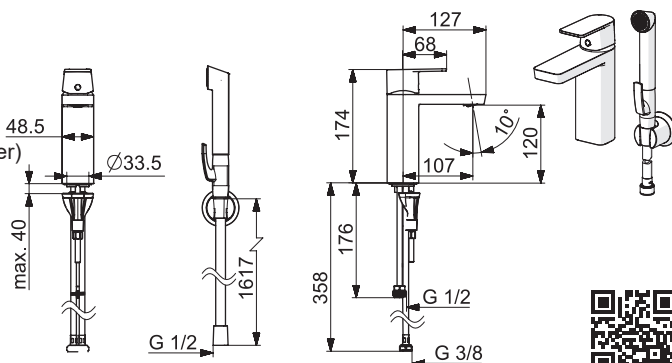
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EN 817

50 - 1000 kPa

0.08 l/s (300 kPa w/ flow controller)

max. +70°C



mpi.oras.com/4806F

4801F

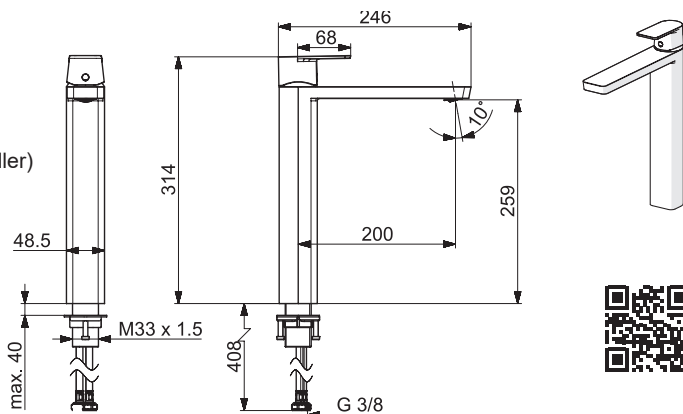
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EN 817

50 - 1000 kPa

0.07 l/s (300 kPa w/ flow controller)

max. +70°C



mpi.oras.com/4801F

4802F

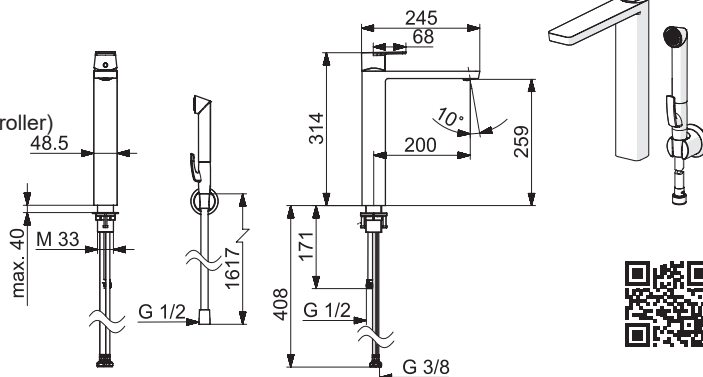
I (ISO 3822)

EN 817

50 - 1000 kPa

0.07 l/s (300 kPa w/ flow controller)

max. +70°C

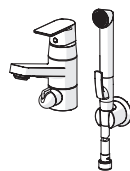
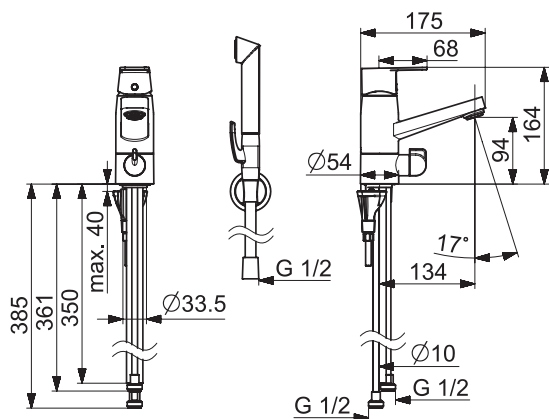


mpi.oras.com/4802F



4807F

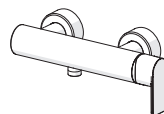
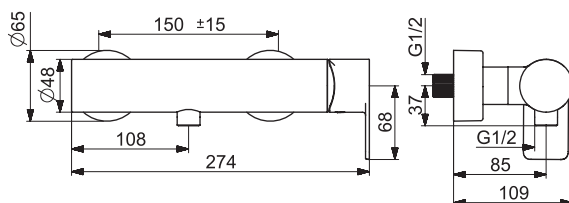
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EN 817
50 - 1000 kPa
0.15 l/s (300 kPa)
max. +70°C



mpi.oras.com/4807F

4860U

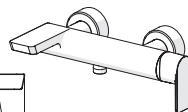
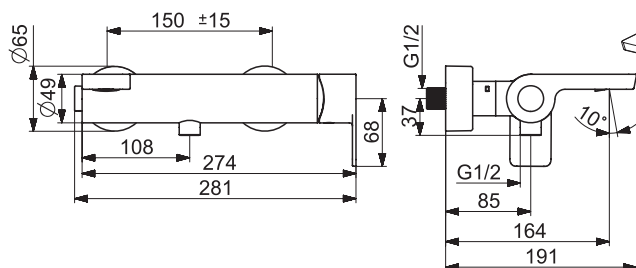
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EN 817
50 - 1000 kPa
0.21 l/s (300 kPa)
max. +80°C



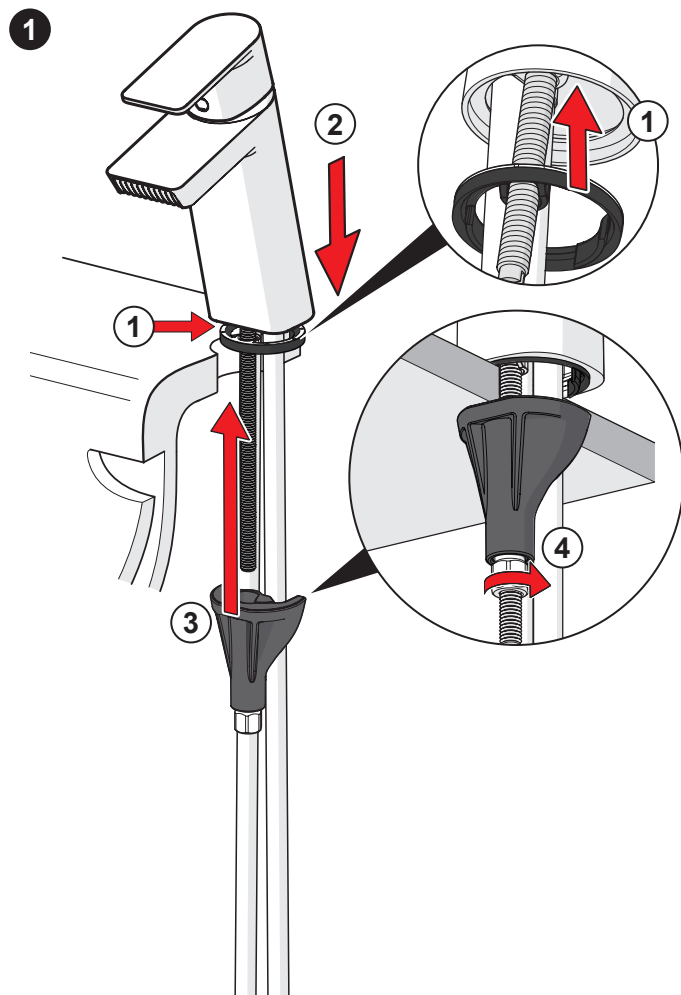
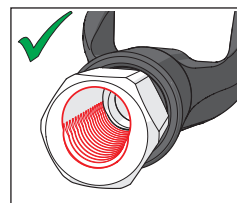
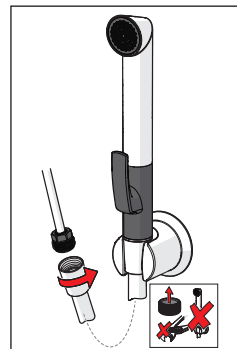
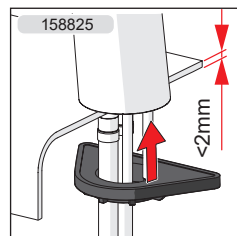
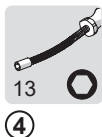
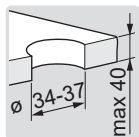
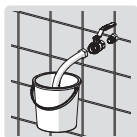
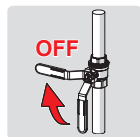
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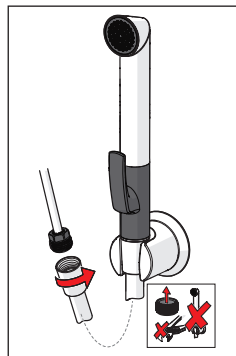
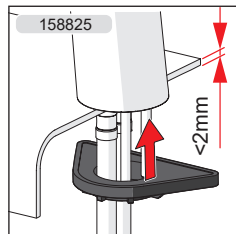
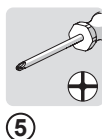
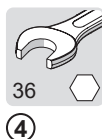
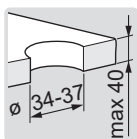
4840U

EN 817
50 - 1000 kPa
0.35 l/s (300 kPa)
max. +80°C

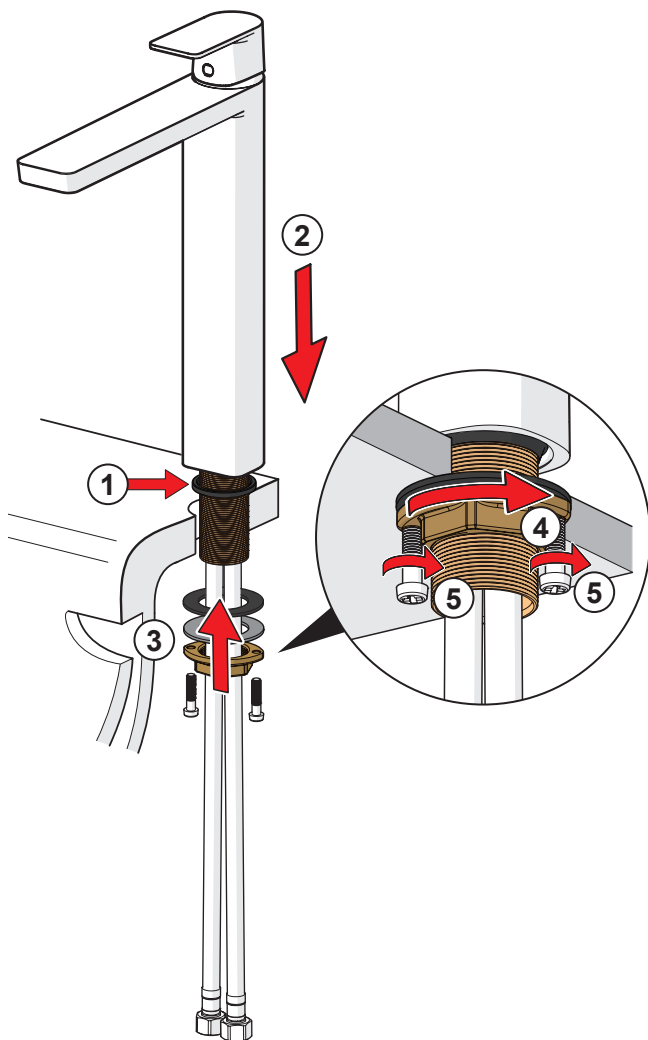


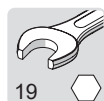
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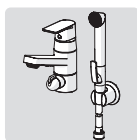




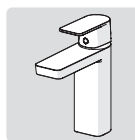
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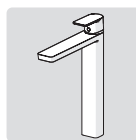
max.
1600 kPa



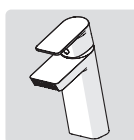
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A

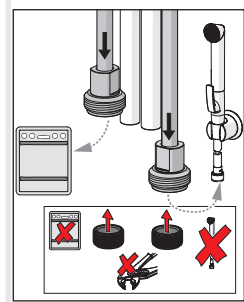
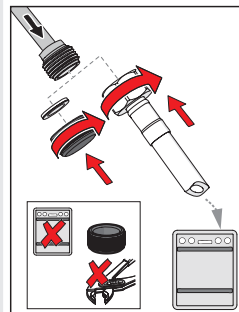
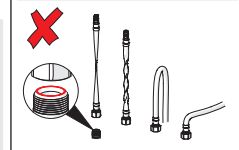
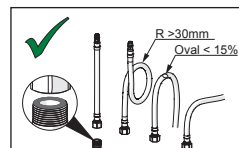
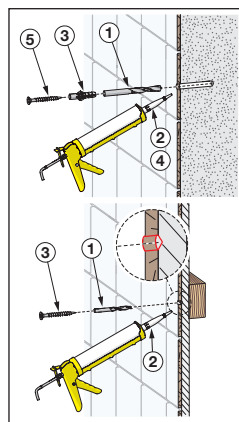
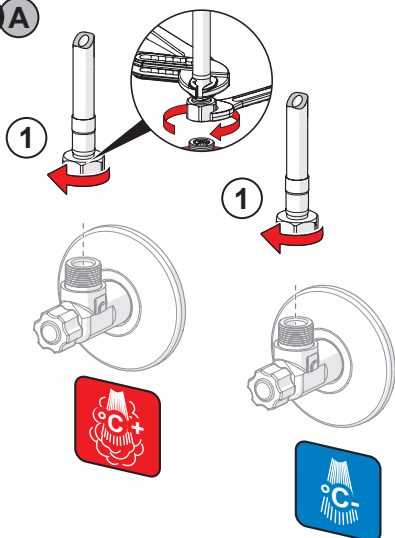


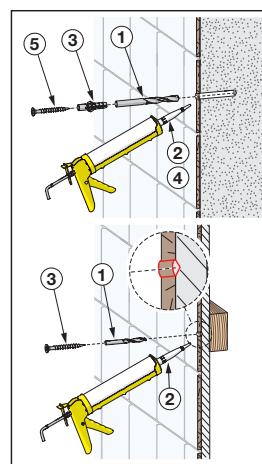
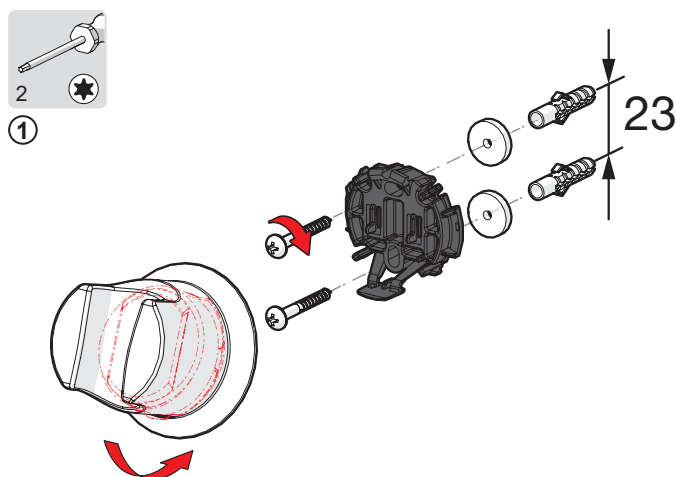
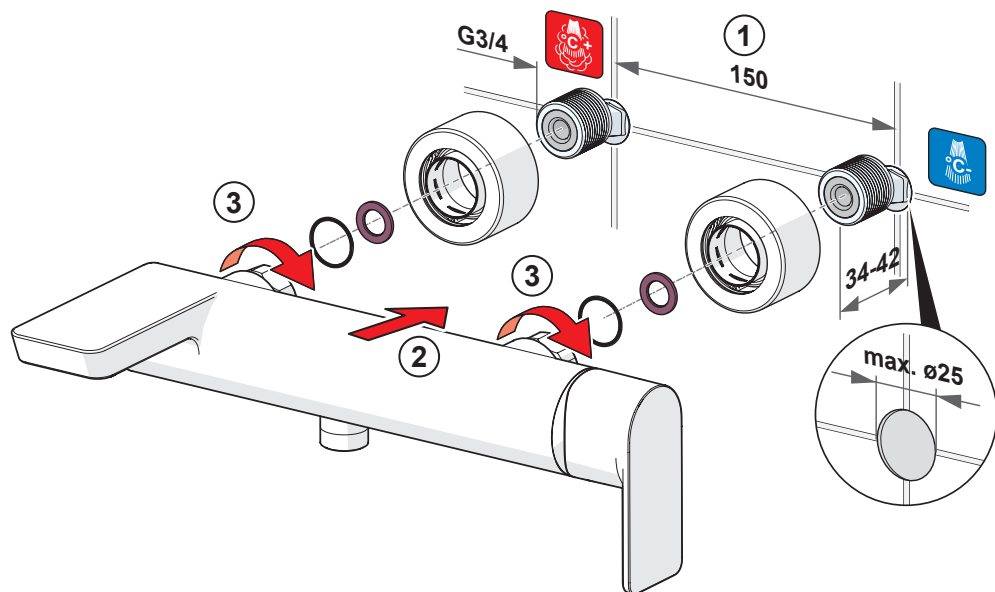
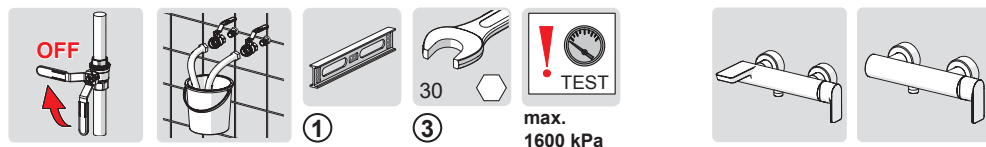
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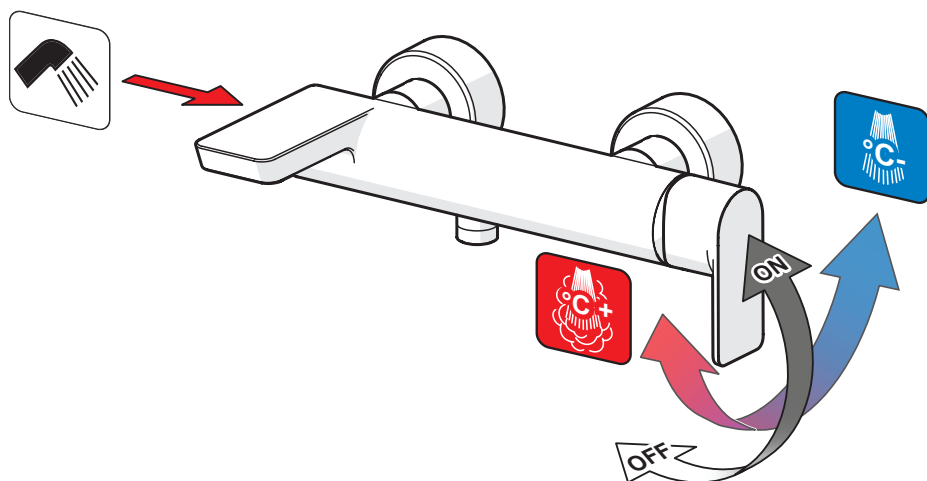
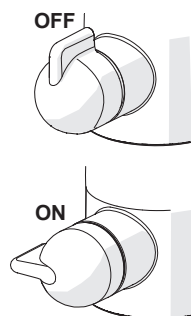
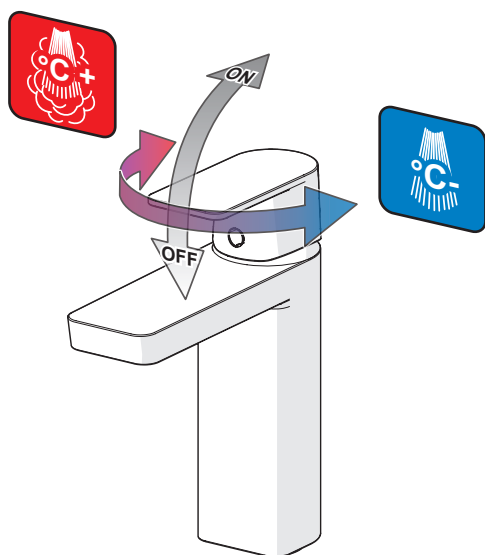


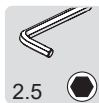
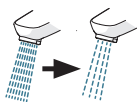
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2 A

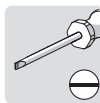




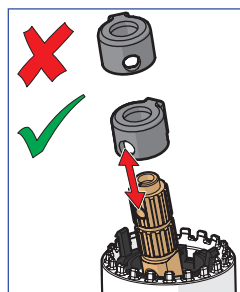
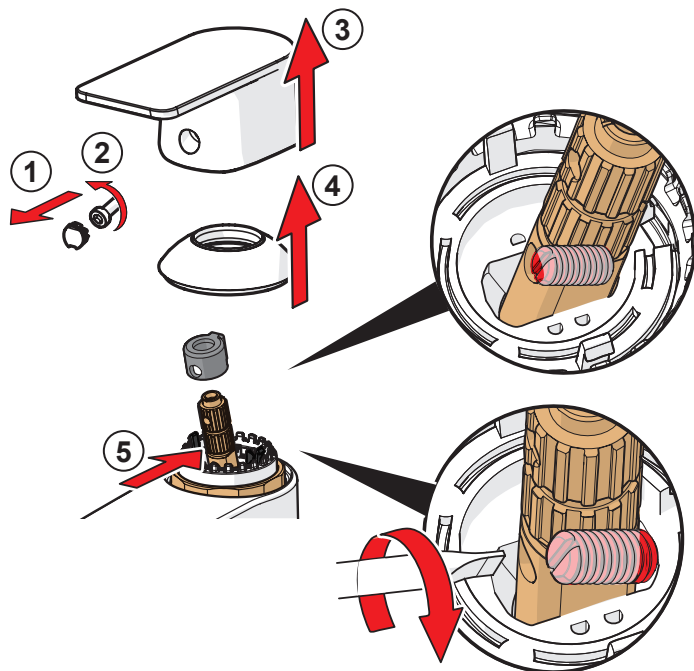
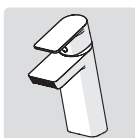
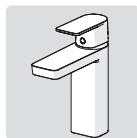
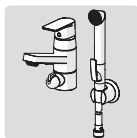


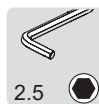


②



⑤



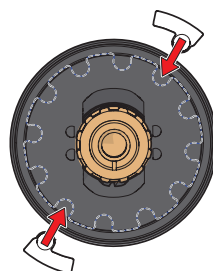
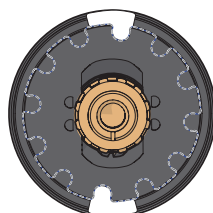
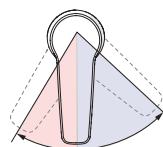
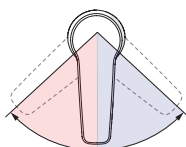
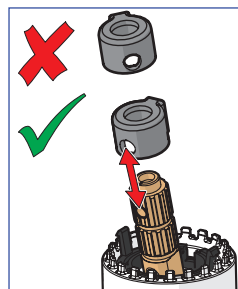
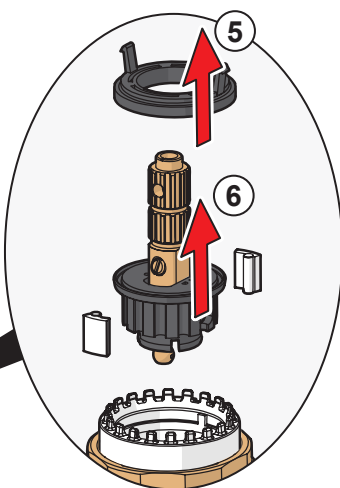
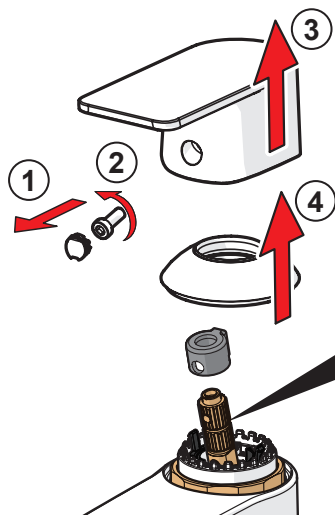
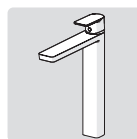
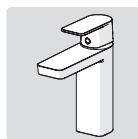


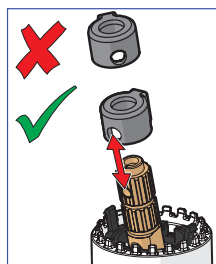
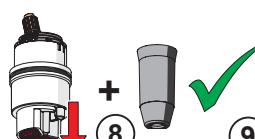
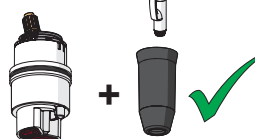
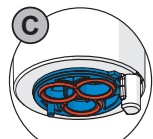
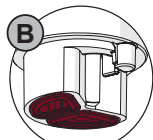
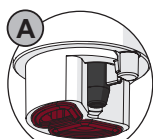
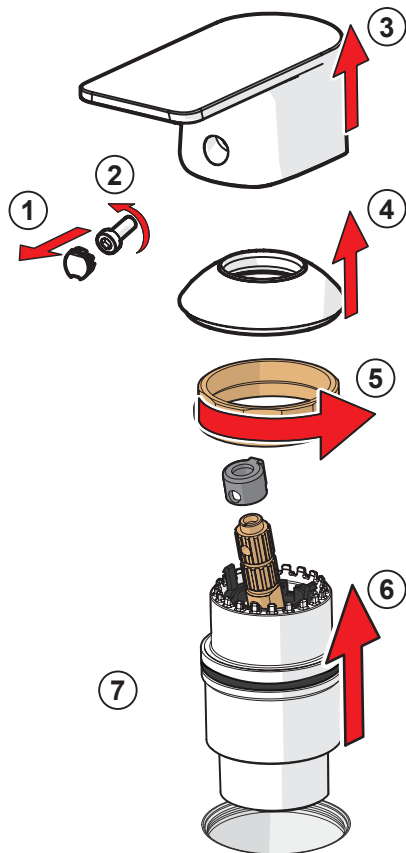
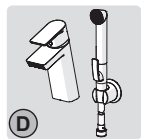
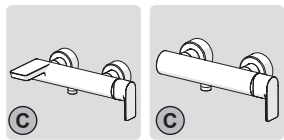
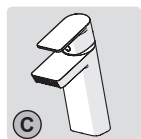
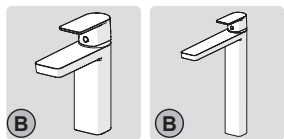
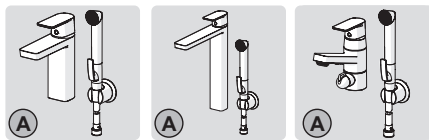
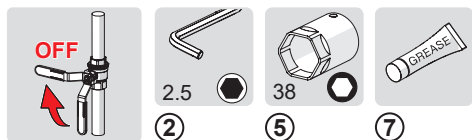
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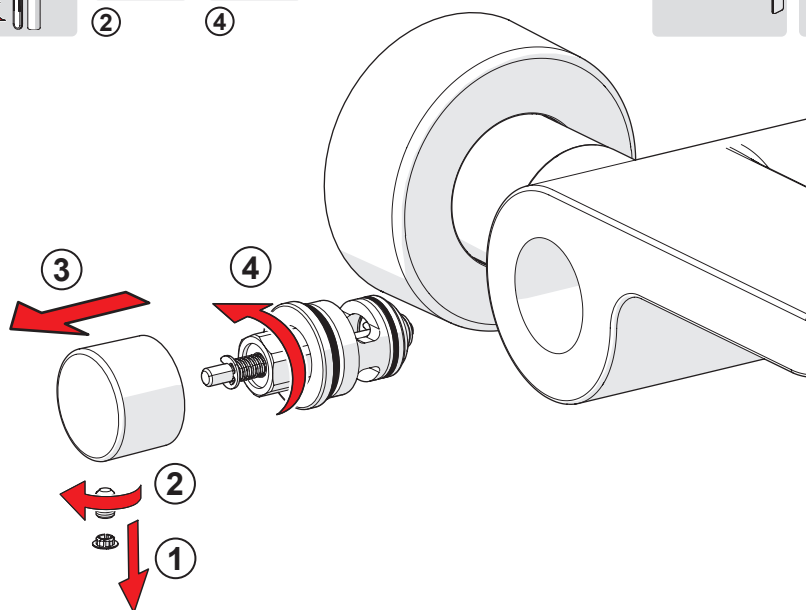
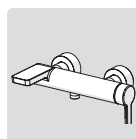
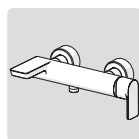
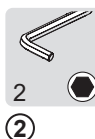
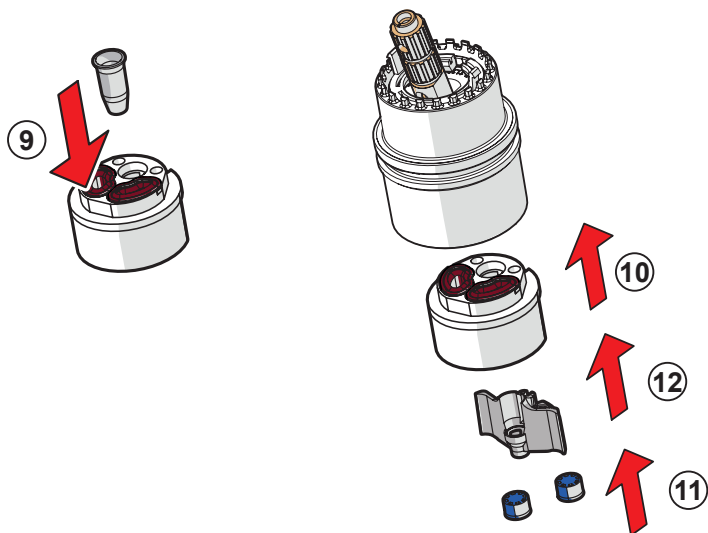


⑤ ⑥





9 - 12 →





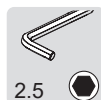
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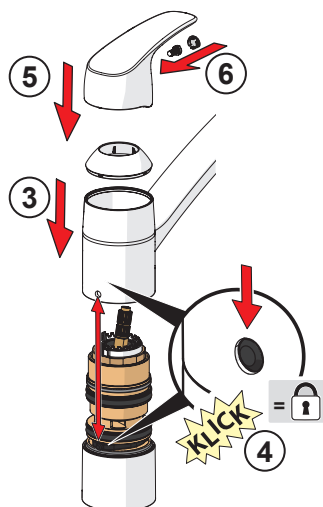
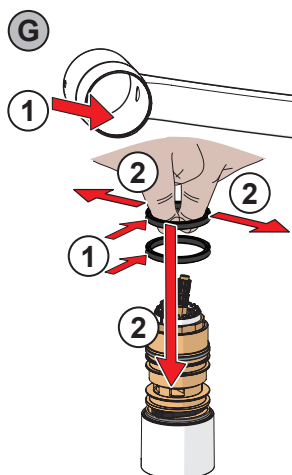
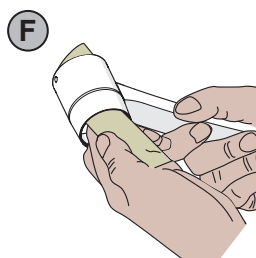
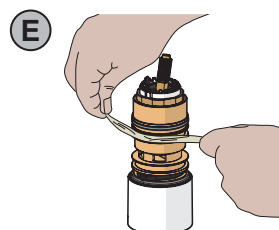
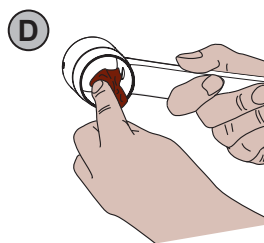
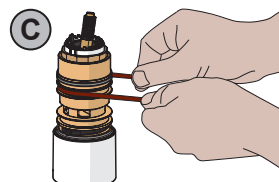
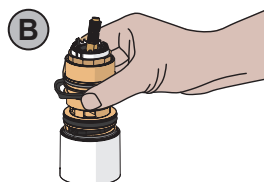
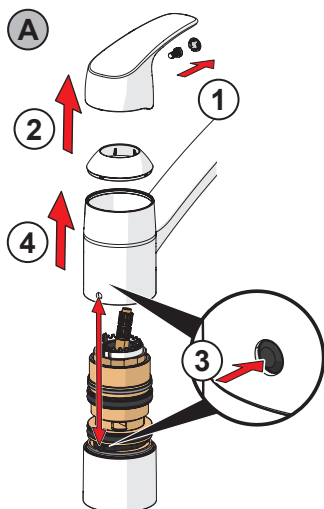
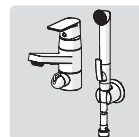
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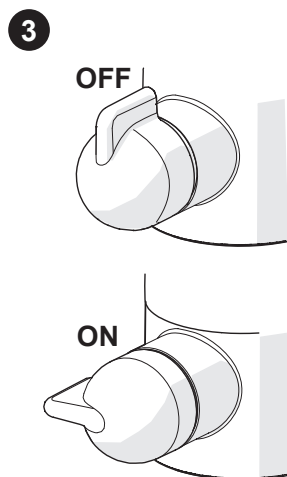
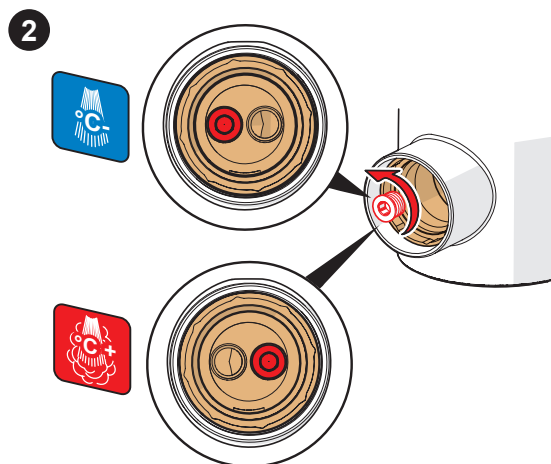
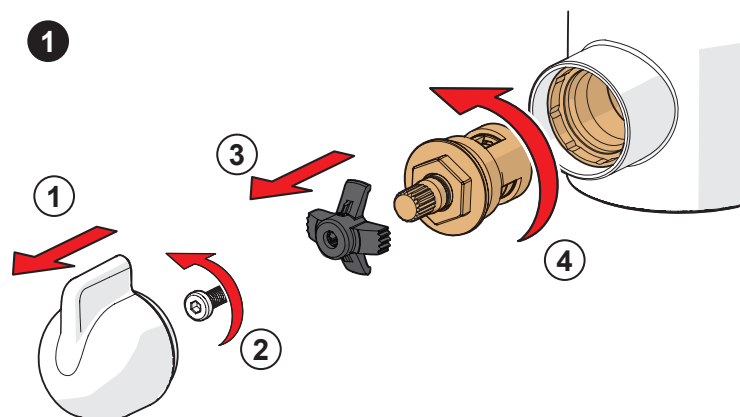
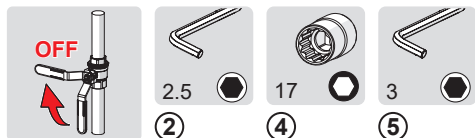


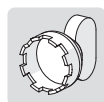
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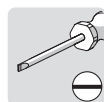
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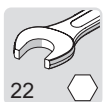




A1



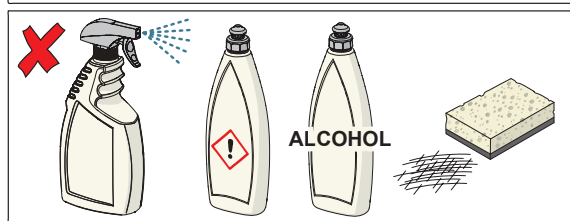
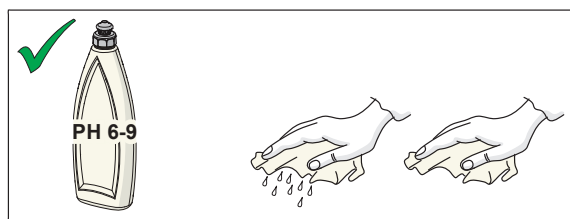
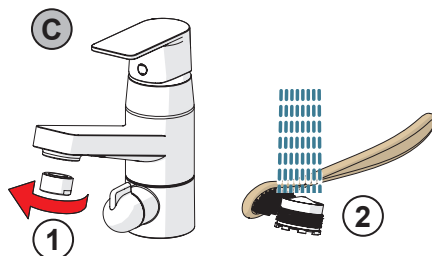
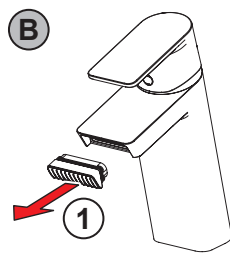
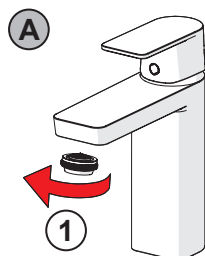
B1



C1



2



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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 three manufacturing sites: Kralovice (Czech Republic), 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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