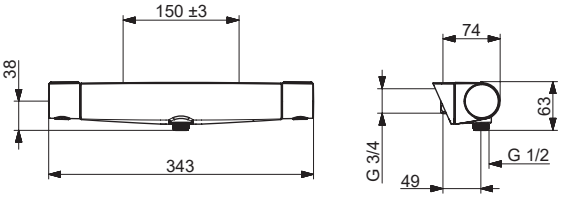
Oras

Installation and maintenance guide

7160N

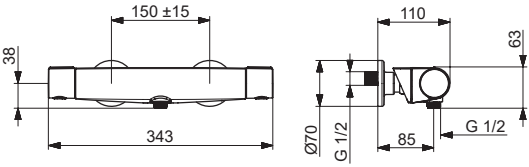
EN 1111
I (ISO 3822)
100 - 1000 kPa)
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +80°C



mpi.oras.com/7160N

7160NU

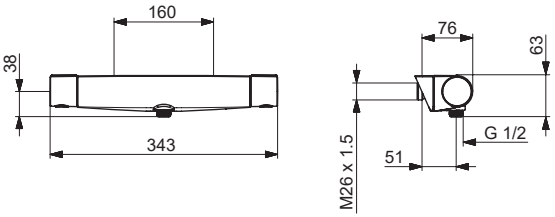
EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +80°C



mpi.oras.com/7160NU

7150N

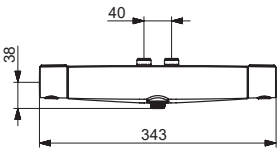
EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +80°C

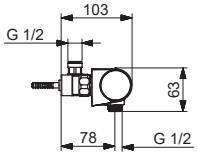


mpi.oras.com/7150N

7151N

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +80°C





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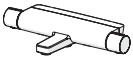
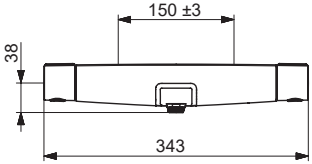
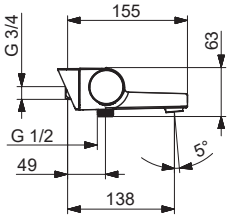
7140N



EN 1111
I (ISO 3822)
100 - 1000 kPa
0.32/0.22 l/s (300 kPa)
265 kPa (0.3 l/s)
max. +80°C





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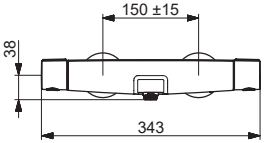
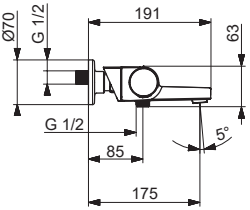
7140NU

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.32/0.22 l/s (300 kPa)
265 kPa (0.3 l/s)
max. +80°C

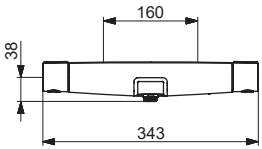


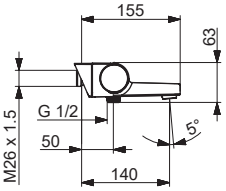


mpi.oras.com/7140NU

7154N

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.32/0.22 l/s (300 kPa)
265 kPa (0.3 l/s)
max. +80°C

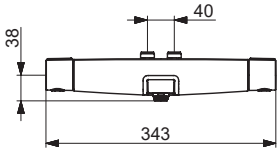


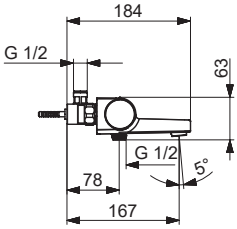


mpi.oras.com/7154N

7155N

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.32/0.22 l/s (300 kPa)
265 kPa (0.3 l/s)
max. +80°C

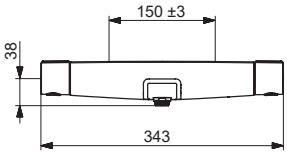


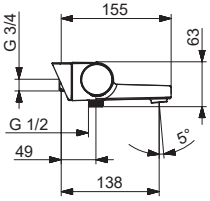


mpi.oras.com/7155N

7140GN

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22/0.22 l/s (300 kPa)
250 kPa (0.2 l/s)
max. +80°C

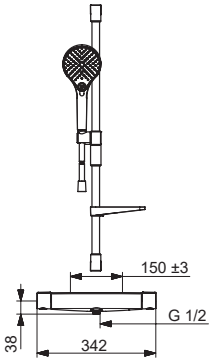


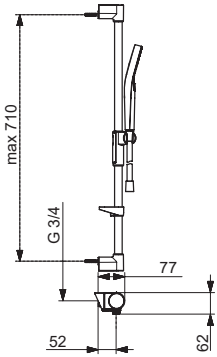


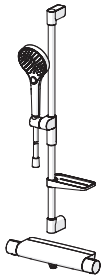
mpi.oras.com/7140GN

7169N

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +65°C







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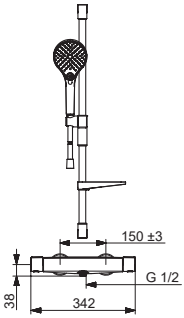
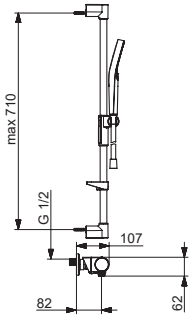
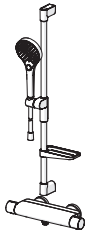
7169NU

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +65°C



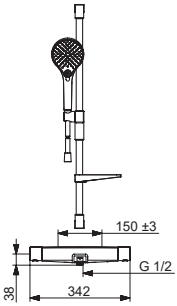


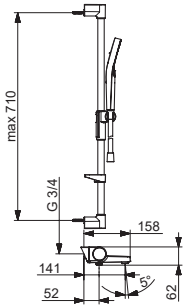


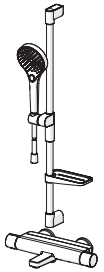
mpi.oras.com/7169NU

7149N

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +65°C



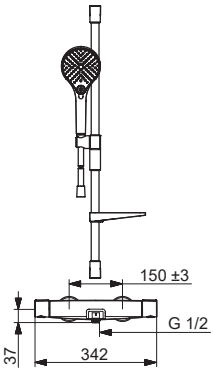


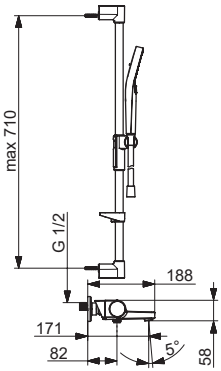


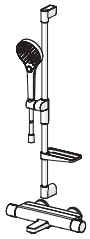
mpi.oras.com/7149N

7149NU

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +65°C



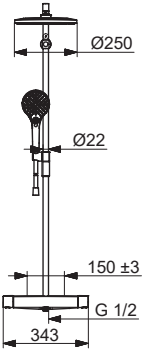


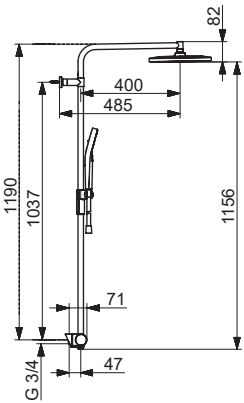


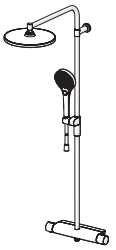
mpi.oras.com/7149NU

7192N

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +65°C



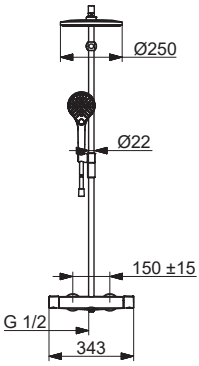


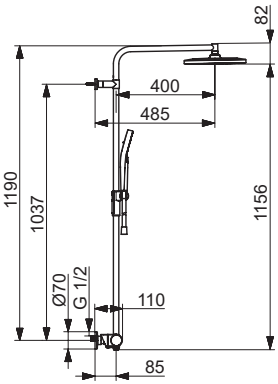


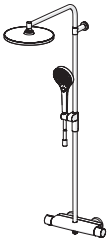
mpi.oras.com/7192N

7192NU

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +65°C



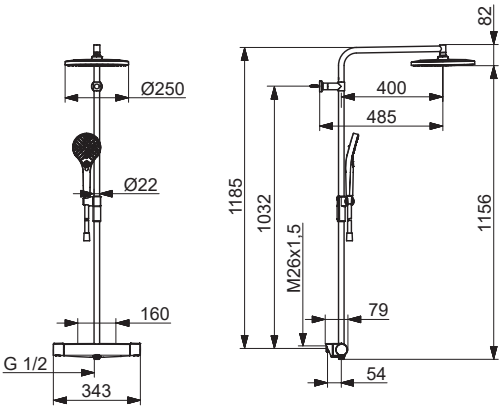


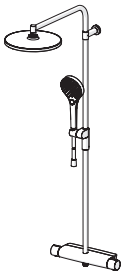


mpi.oras.com/7192NU

7156N

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +65°C

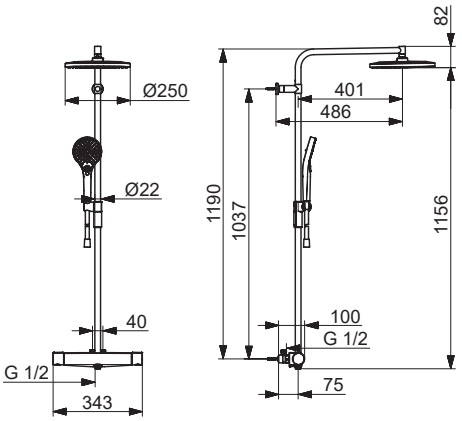


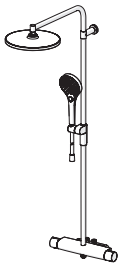


mpi.oras.com/7156N

7157N

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +65°C

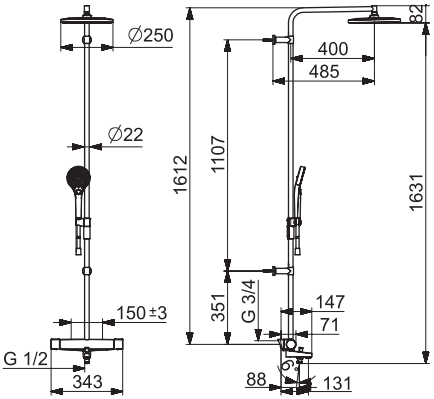




mpi.oras.com/7157N

7193N

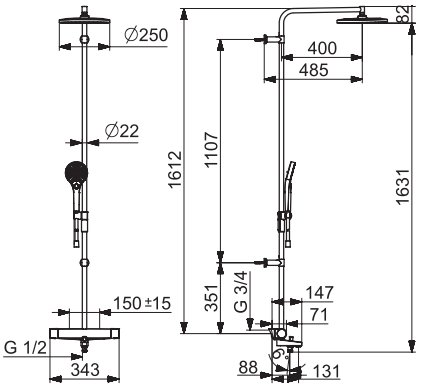
EN 1111
I (ISO 3822)
100 - 1000 kPa
0.32/0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +65°C

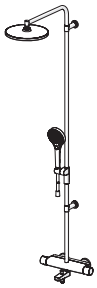


mpi.oras.com/7193N

7193NU

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.32/0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +65°C

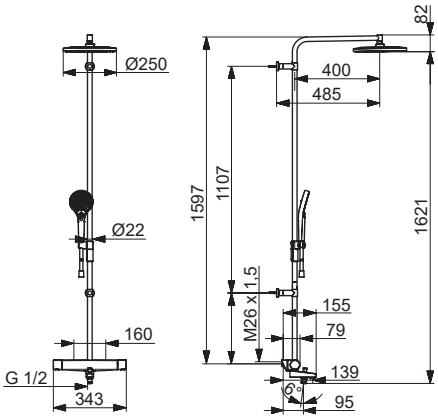




mpi.oras.com/7193NU

7152N

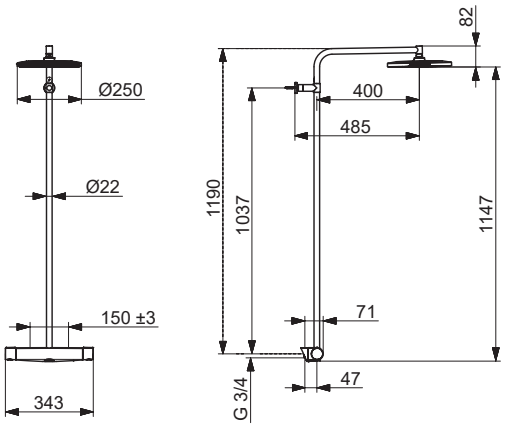
EN 1111
I (ISO 3822)
100 - 1000 kPa
0.32/0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +65°C

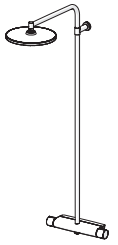


mpi.oras.com/7152N

7191N

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.22 l/s (300 kPa)
0.12 l/s (300 kPa) Eco
250 kPa (0.2 l/s)
max. +80°C

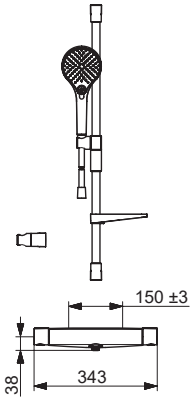


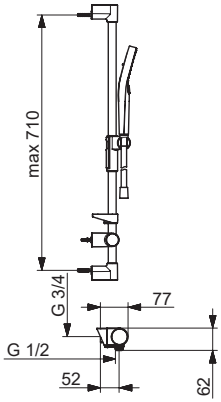


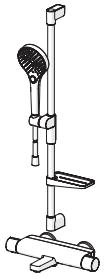
mpi.oras.com/7191N

7169-109

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.15 l/s (300 kPa w flow reducers)
max. +65°C



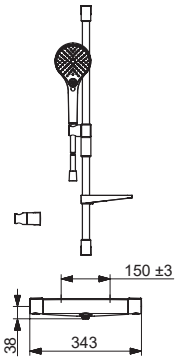


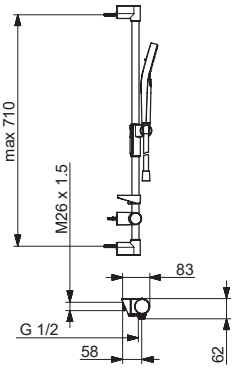


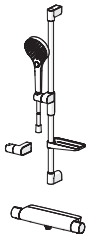
mpi.oras.com/7169-109

7158-109

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.13 l/s (300 kPa w flow reducers)
max. +65°C



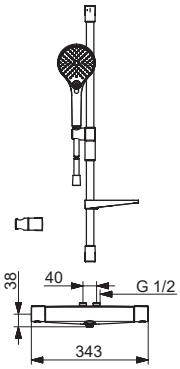


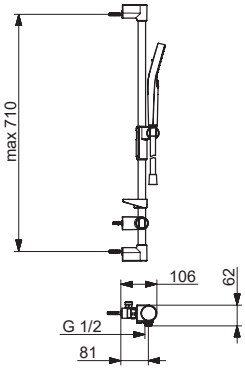


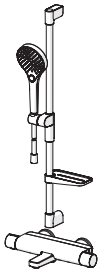
mpi.oras.com/7158-109

7159-109

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.15 l/s (300 kPa w flow reducers)
max. +65°C



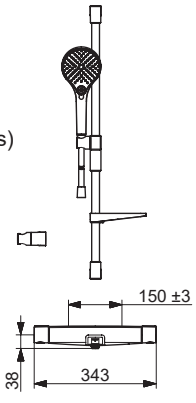


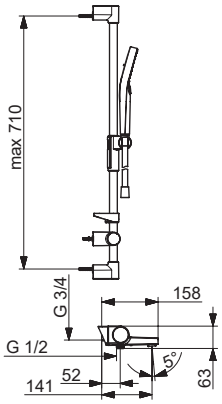


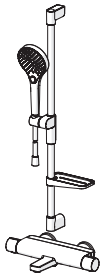
mpi.oras.com/7159-109

7149-109

EN 1111
I (ISO 3822)
100 - 1000 kPa
0.15 l/s (300 kPa w flow reducers)
max. +65°C



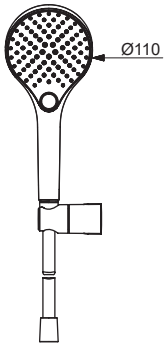


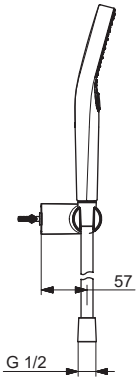


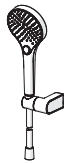
mpi.oras.com/7149-109

2795N

EN 1112
I (ISO 3822)
50 - 500 kPa
0.12 l/s (300 kPa) Eco
max. +65°C



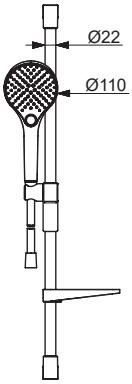


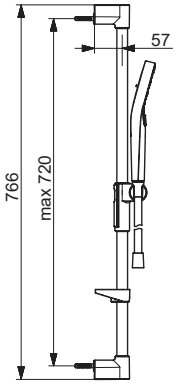


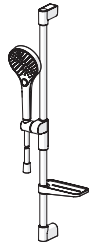
mpi.oras.com/2795N

2790N

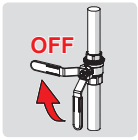
EN 1112
I (ISO 3822)
50 - 500 kPa
0.12 l/s (300 kPa) Eco
max. +65°C







mpi.oras.com/2790N

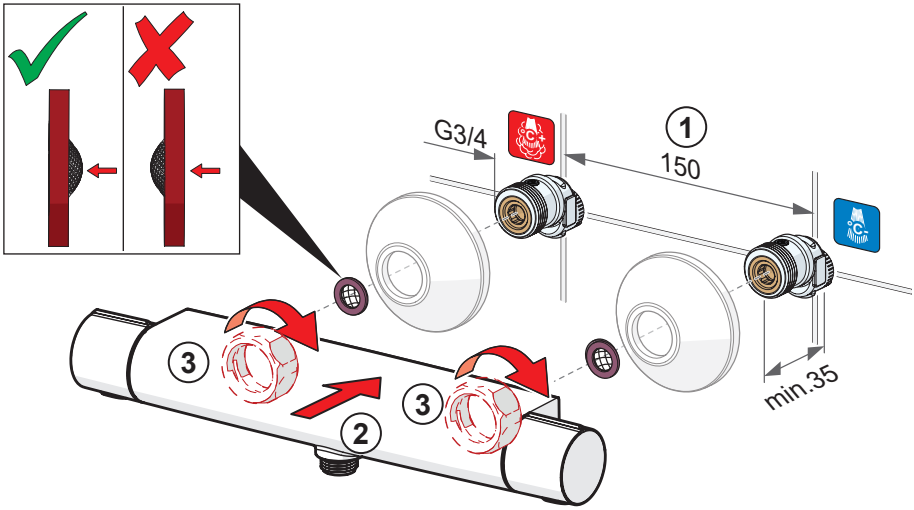


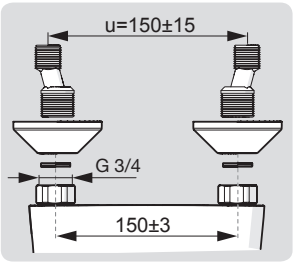
①

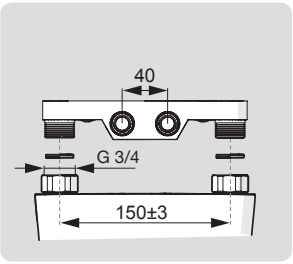
③

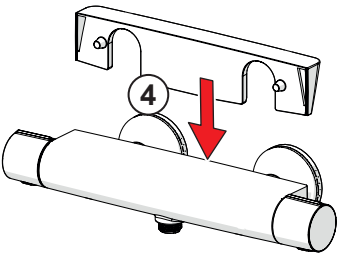
max.
1600 kPa

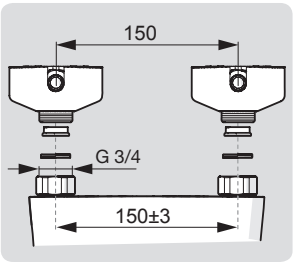
1

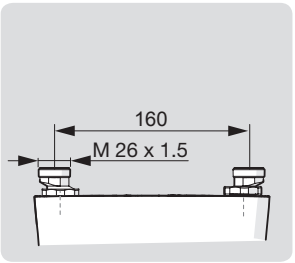


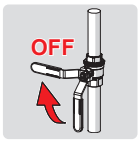












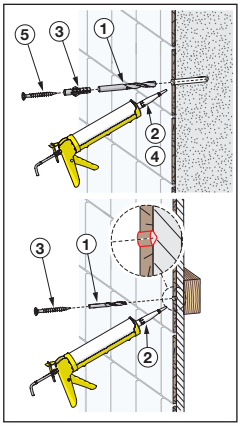
①

②

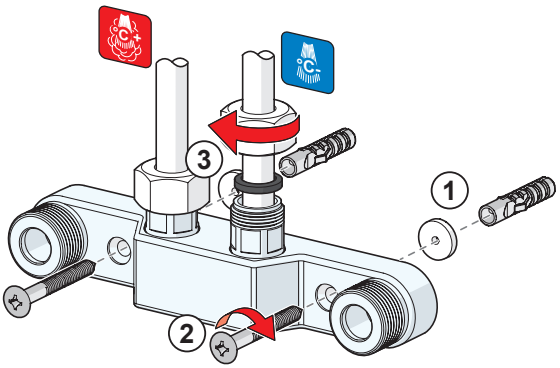
③

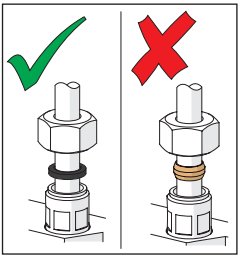
④

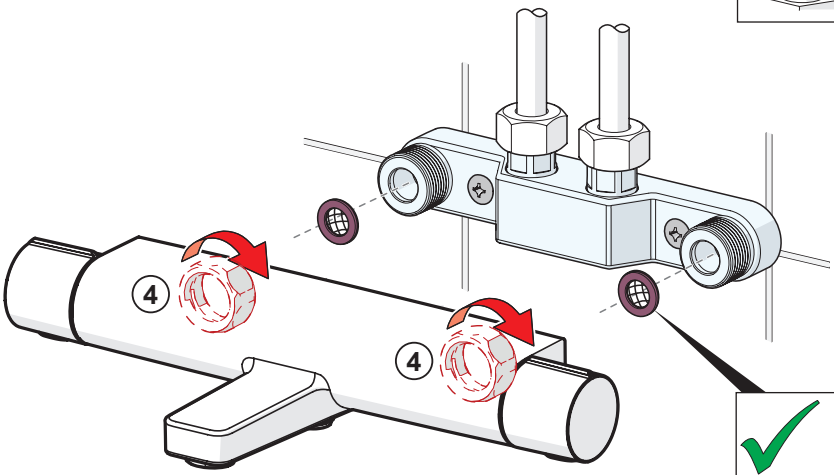
max. 1600 kPa

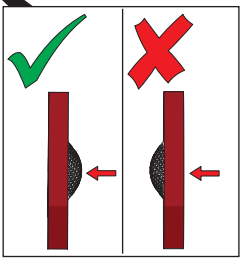


1

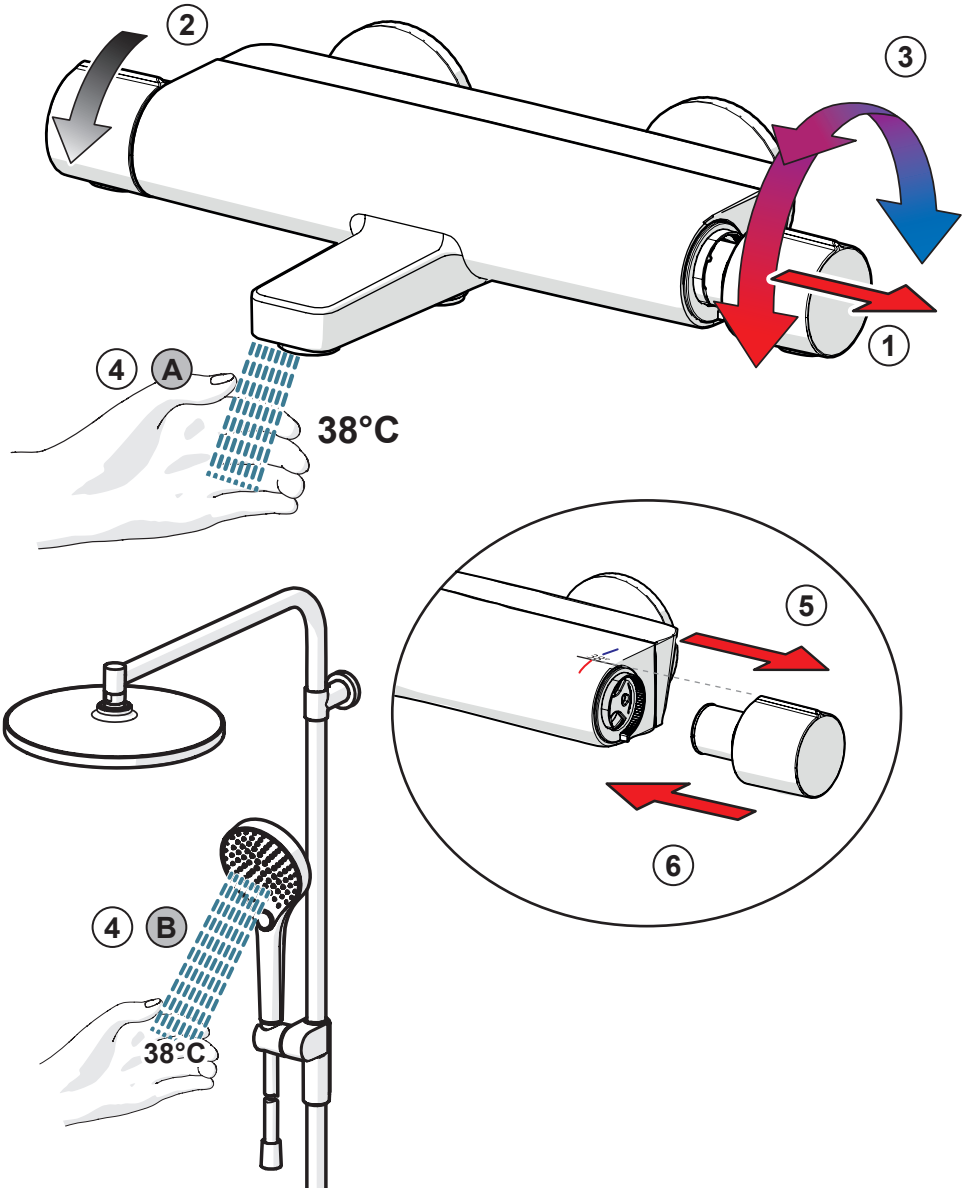


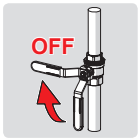


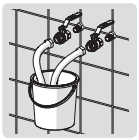




3

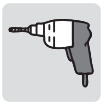






1

1



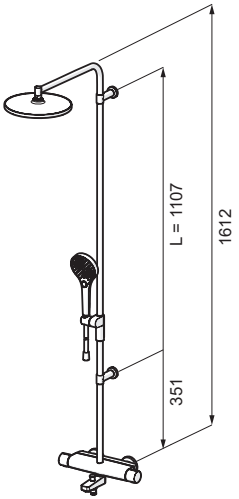
2

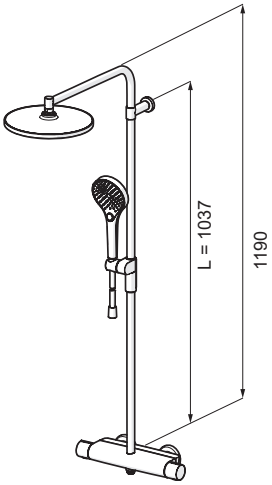
②

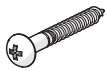
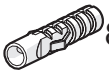
max.
1600 kPa

A B

1 ⚠ L



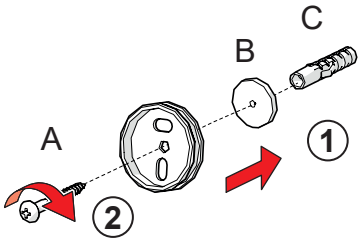


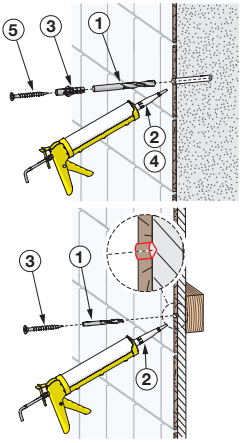
A		5x40	x 2 x 1
B		21/3x3	x 2 x 1
C		8x40	x 2 x 1
D		M6x25	x 2 x 1
E		M4x4	x 2 x 1
F		M5x6	x 2 x 1

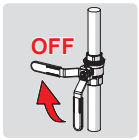
Ⓐ **7193N/NU** Ⓑ **7192N/NU**

2 **x 2 7193N/NU**

⚠ L

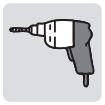






1

1



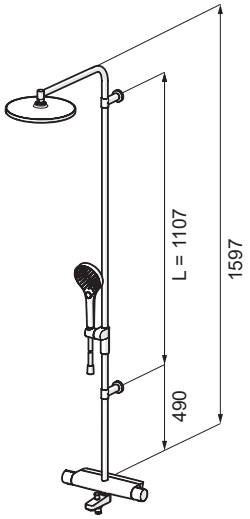
2

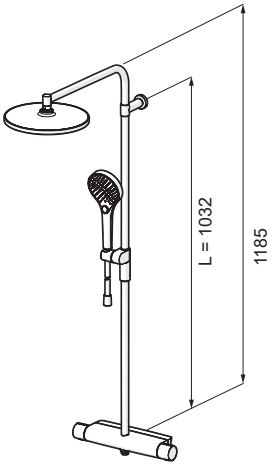
②

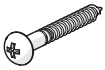
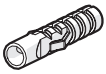
max.
1600 kPa

C D

1 ⚠ L



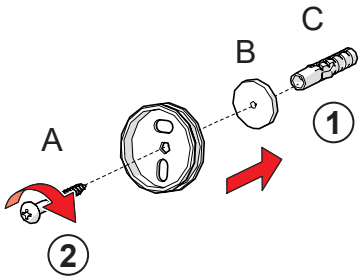


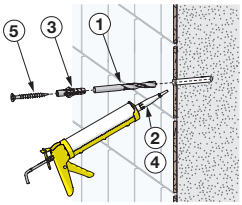
A		5x40	x 2	x 1
B		21/3x3	x 2	x 1
C		8x40	x 2	x 1
D		M6x25	x 2	x 1
E		M4x4	x 2	x 1
F		M5x6	x 2	x 1

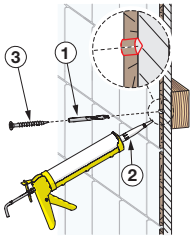
C 7152N D 7156N

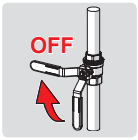
2 x 2 7152N

⚠ L









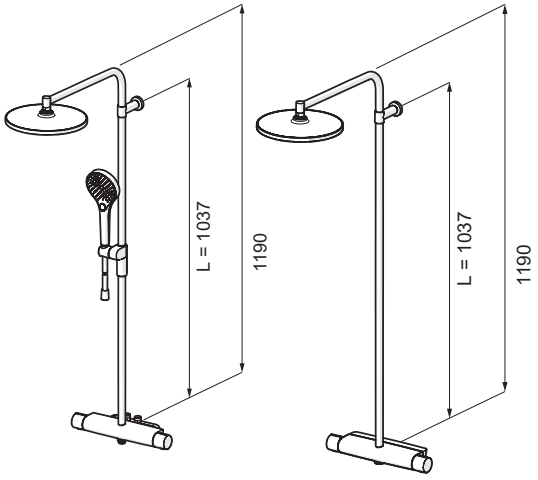
❶

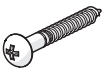
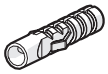
❶

❷

max.
1600 kPa

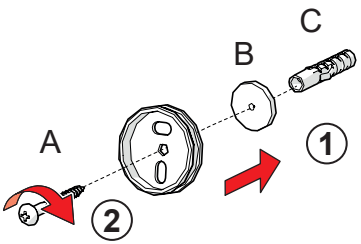
❶ ⚠ L

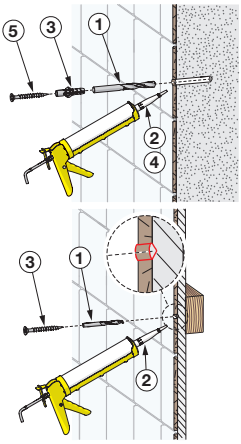


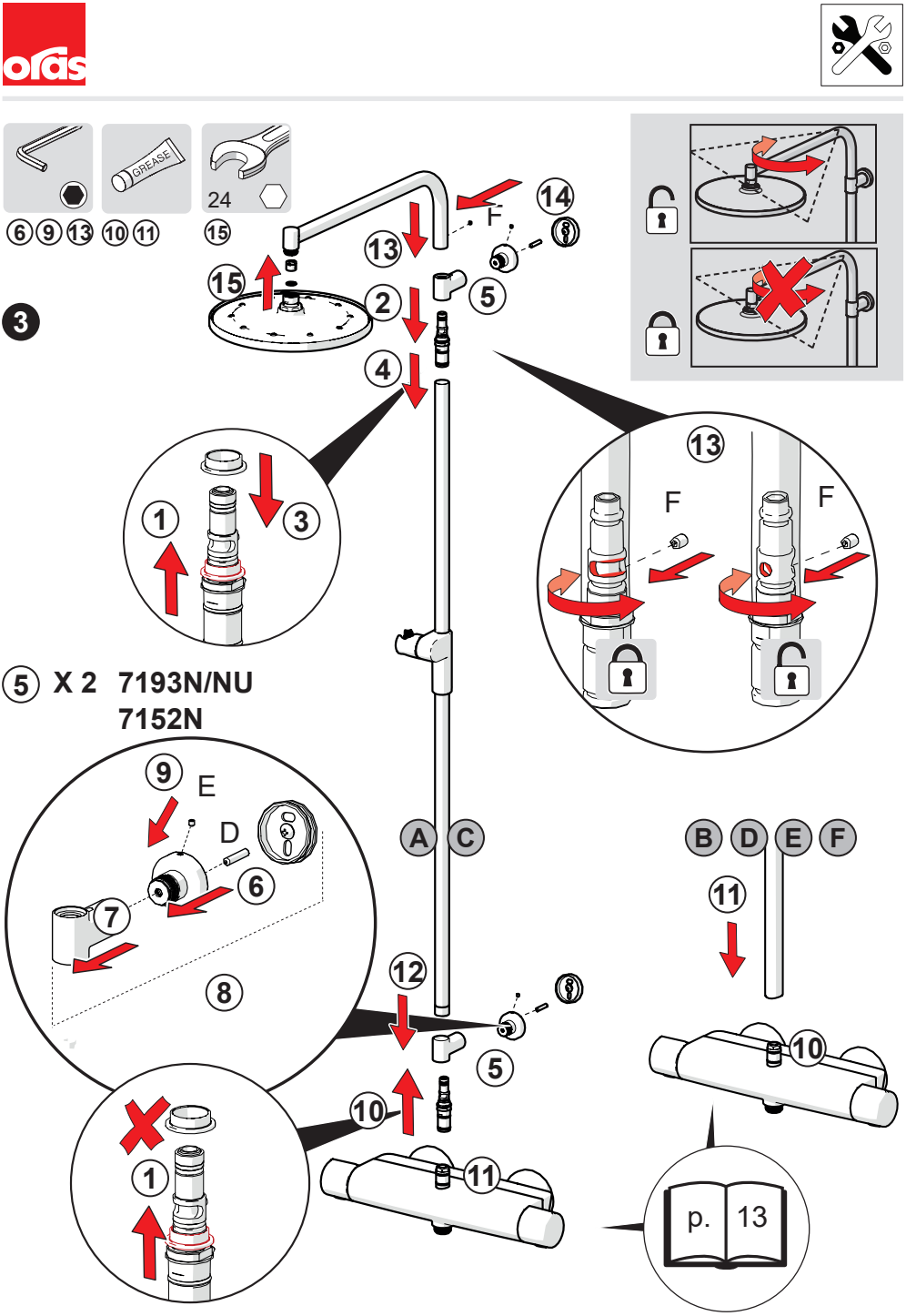
A		5x40	x 1
B		21/3x3	x 1
C		8x40	x 1
D		M6x25	x 1
E		M4x4	x 1
F		M5x6	x 1

Ⓔ 7157N **Ⓕ 7191N**

❷ ⚠ L






GREASE
24
6 9 13 10 11
15
3
14
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13
15
2
5
4
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3
13
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5 X 2 7193N/NU
7152N
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A C
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B D E F
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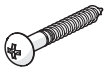
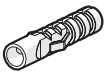
p. 13

A		5x40	x 2
B		21/3x3	x 2
C		8x40	x 2
D		4.0x12	x 2

1 1

2790N

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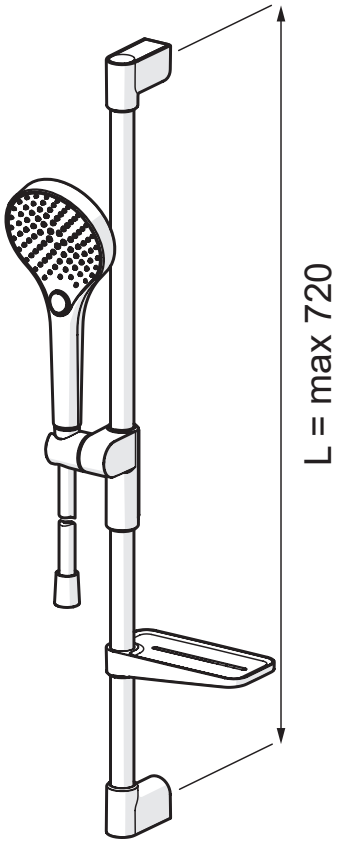
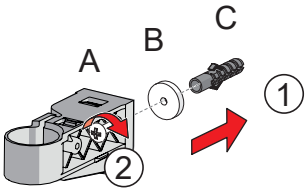


2 3

2 8 9

2



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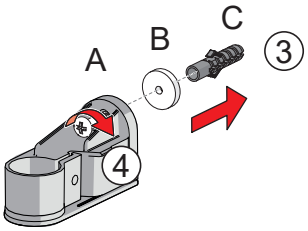

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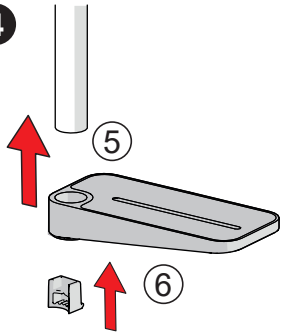

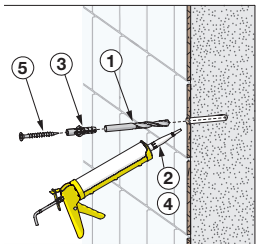

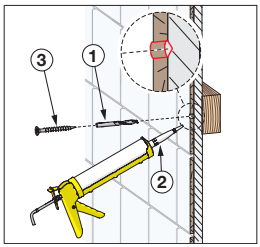

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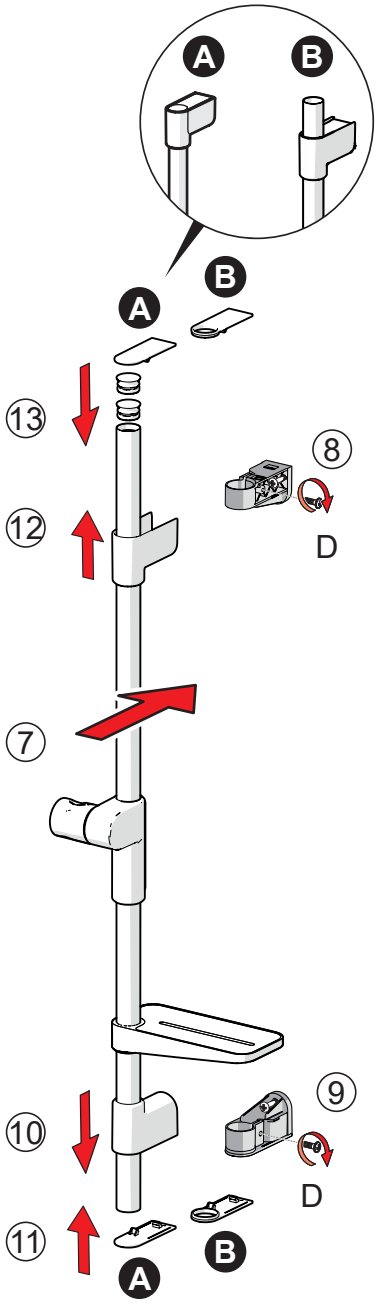
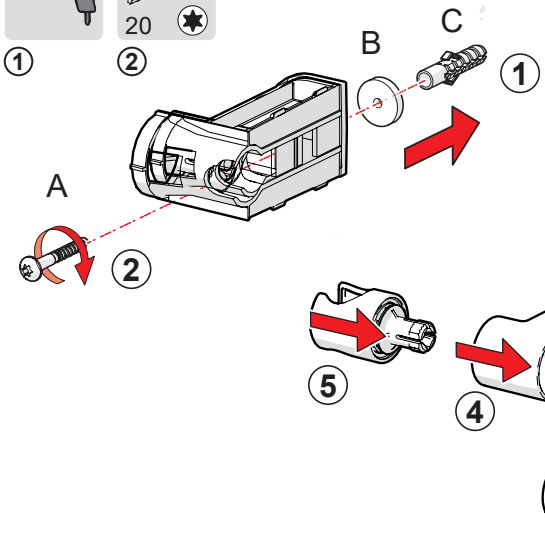
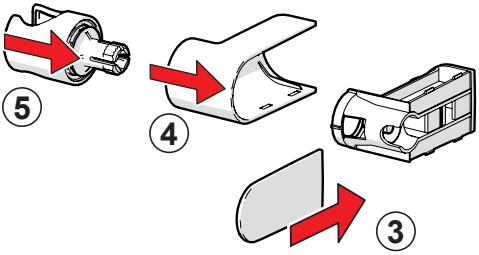




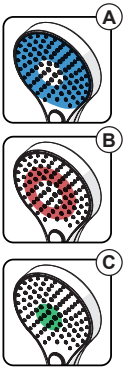
A 5x40 x 1

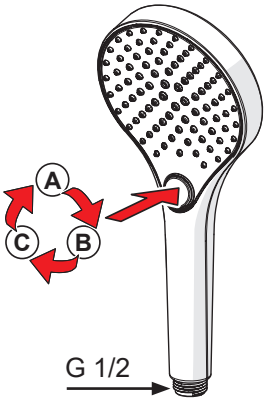
B 21/3x3 x 1

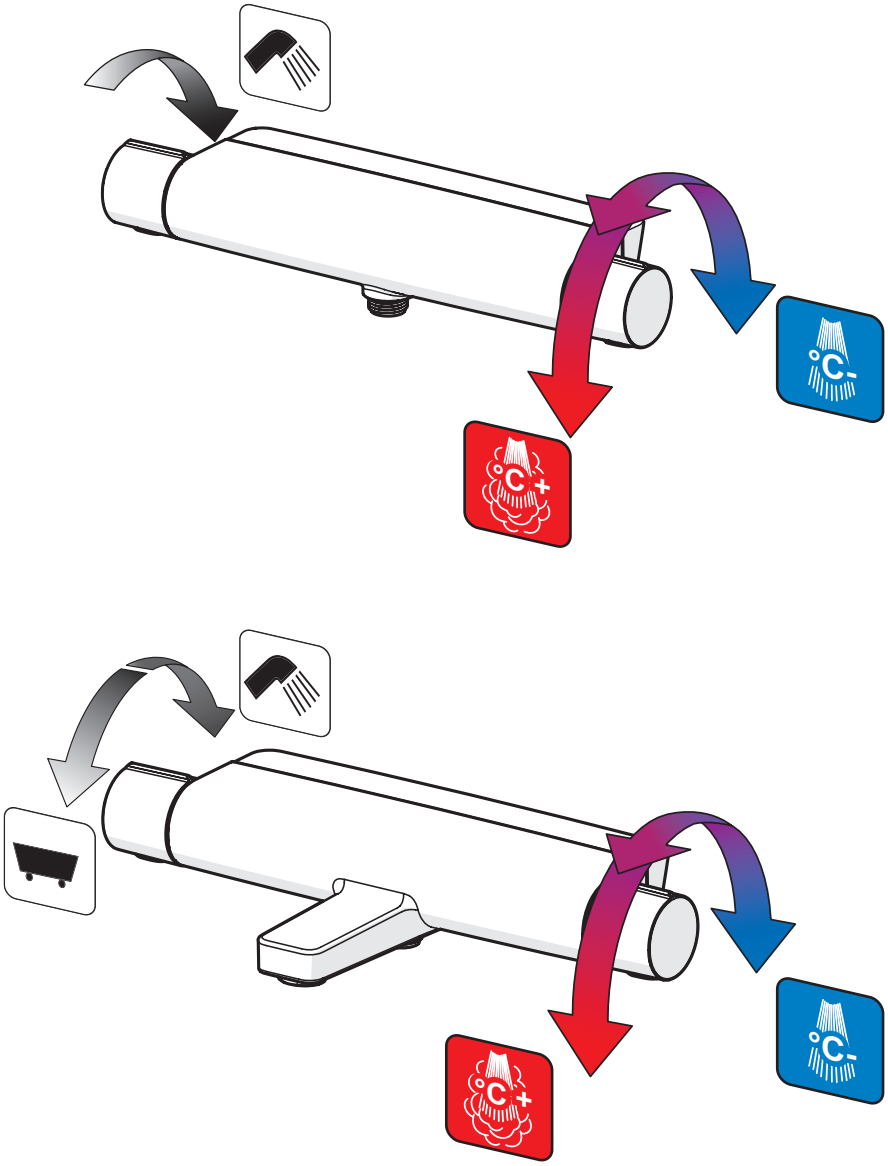
C 8x40 x 1

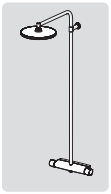


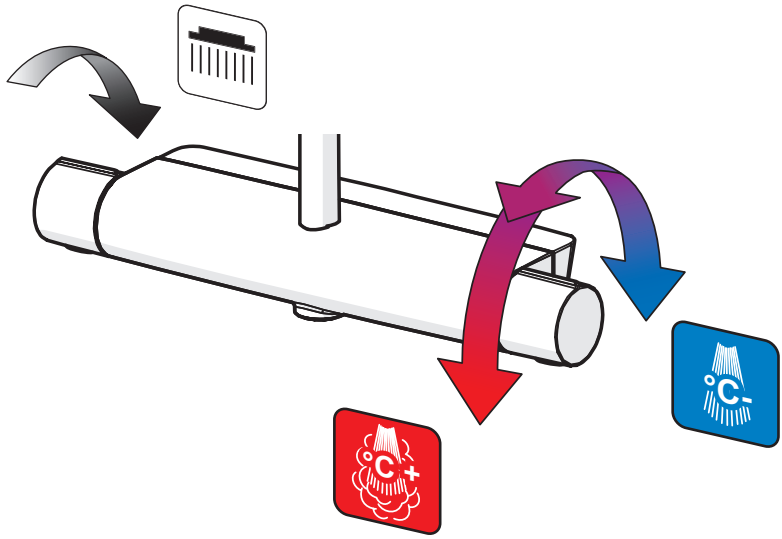
Max 65°C






°C-
°C+
°C-
°C+




°C-
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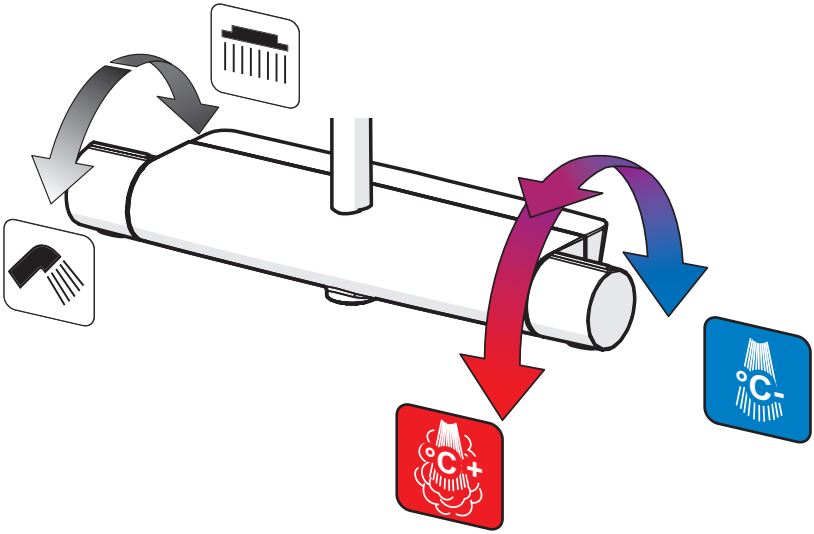
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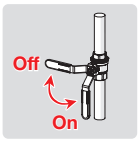

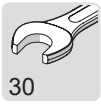

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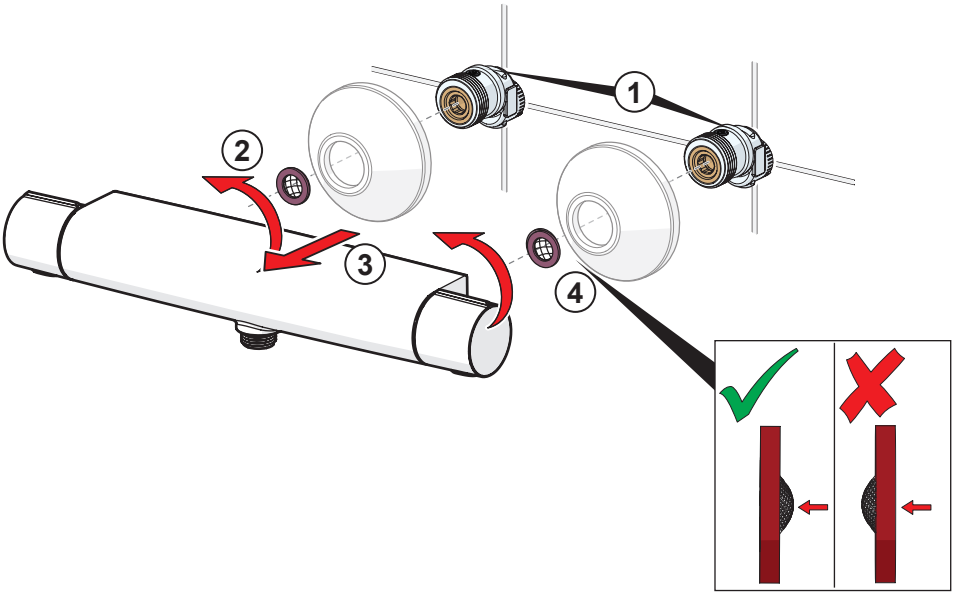

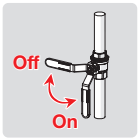

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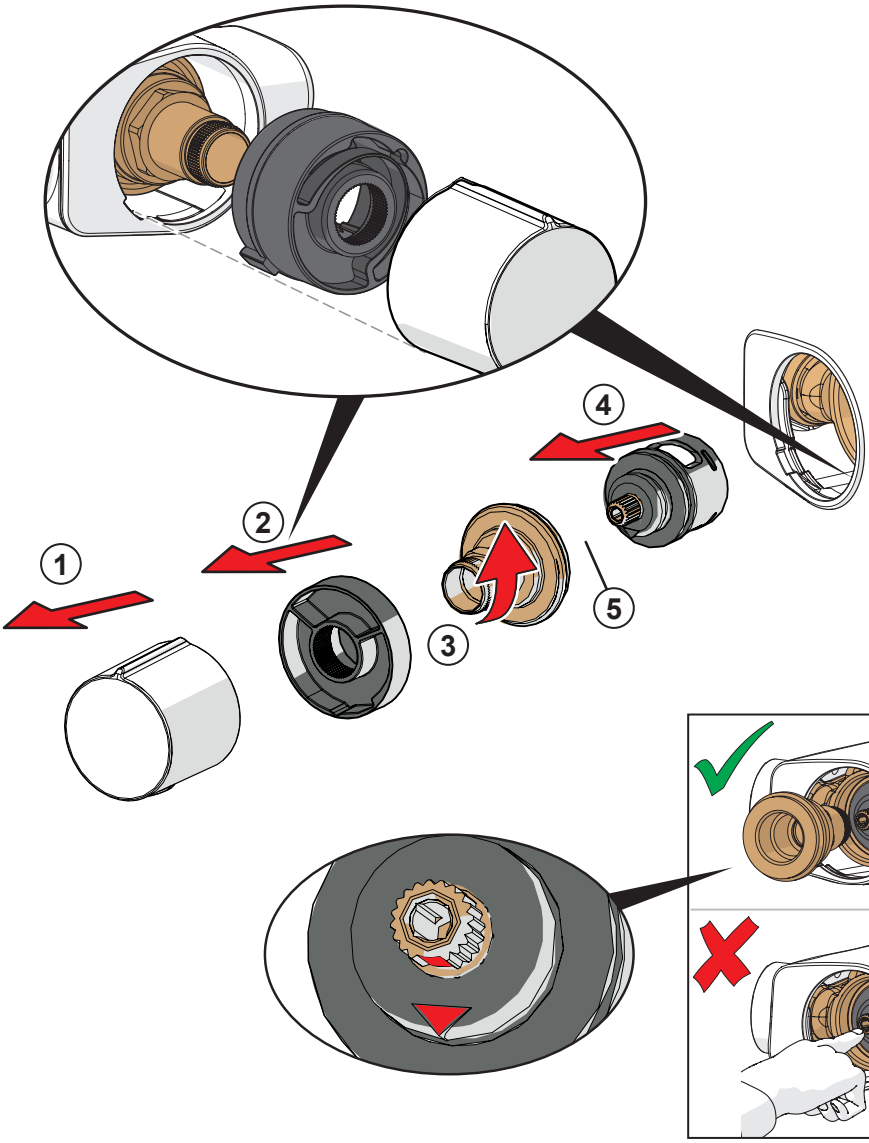

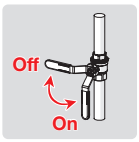

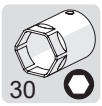

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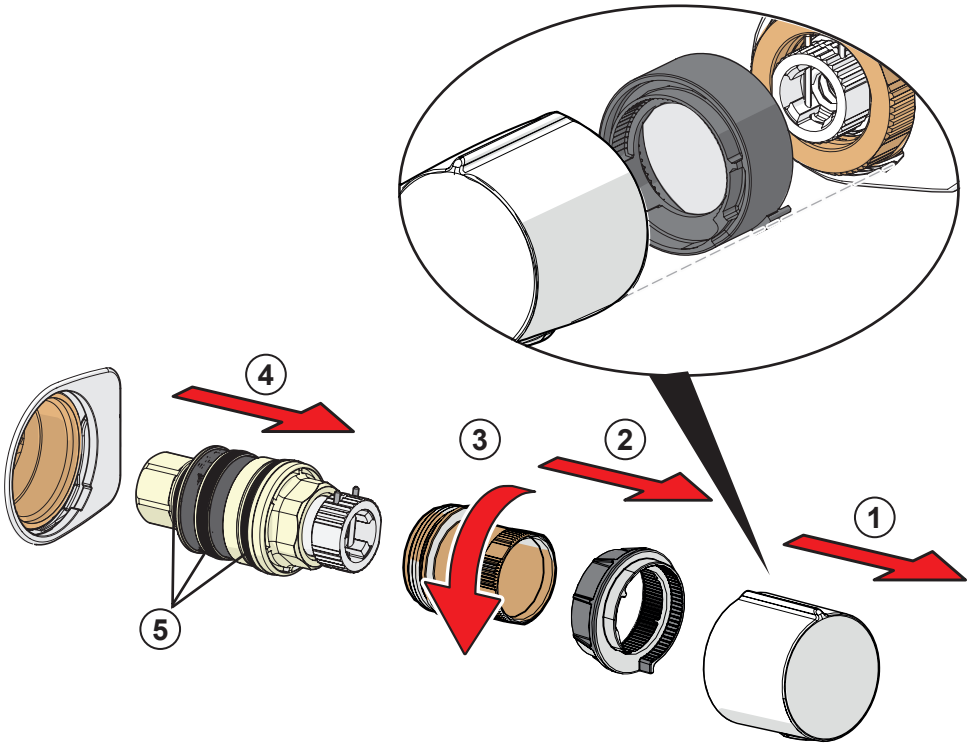

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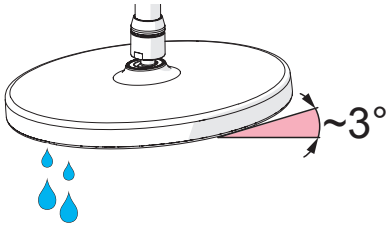

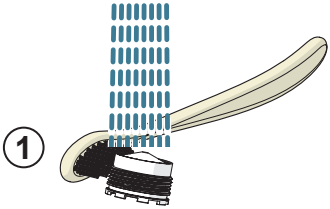

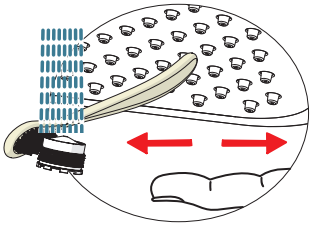

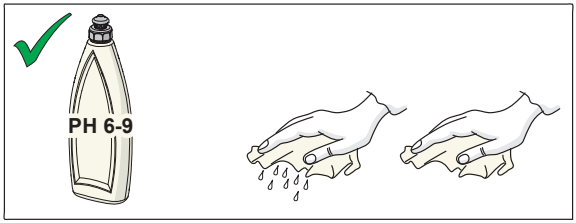

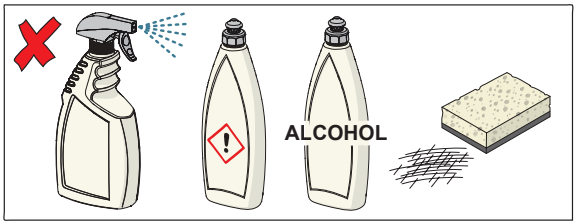

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About Oras Group

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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ORAS Ltd
Isometsäntie 2, P.O. Box 40
FI-26101 Rauma
Tel. +358 2 83 161
Fax +358 2 831 6300
info.finland@oras.com
www.oras.com