



Oras

Installation and maintenance guide



4-9



10, 13,
14



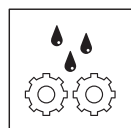
11, 12,
13



15-18



19



20

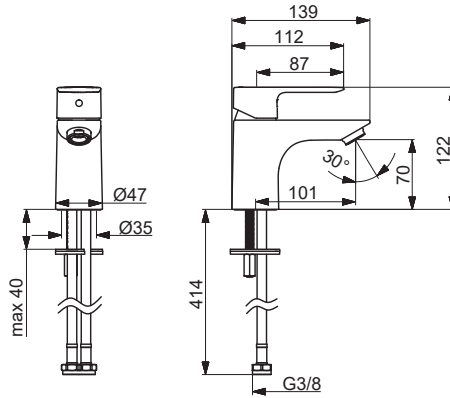


21



1610FN

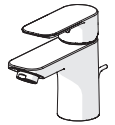
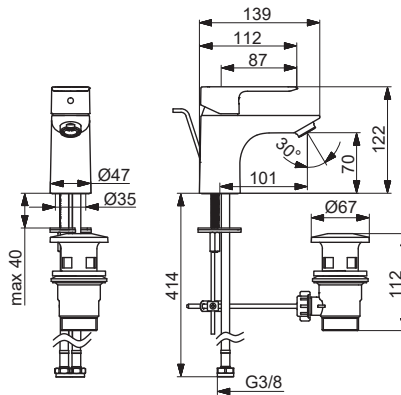
I (ISO 3822)
 EN 817
 50 - 1000 kPa
 0.08 l/s (300 kPa w/Controller)
 max. +70°C



mpi.oras.com/1610FN

1600FN

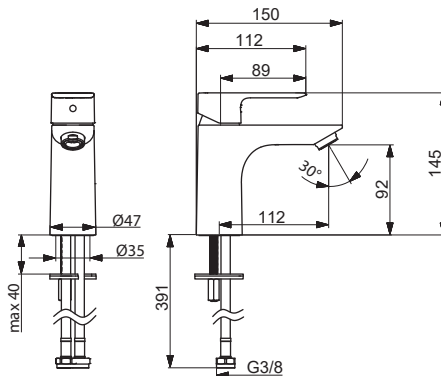
I (ISO 3822)
 EN 817
 50 - 1000 kPa
 0.08 l/s (300 kPa w/Controller)
 max. +70°C



mpi.oras.com/1600FN

1603FN

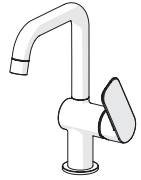
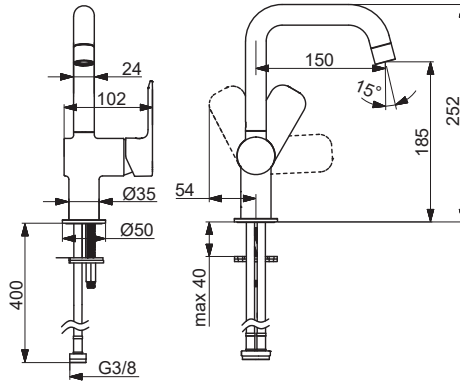
I (ISO 3822)
 EN 817
 50 - 1000 kPa
 0.08 l/s (300 kPa w/Controller)
 max. +70°C



mpi.oras.com/1603FN

1611FN

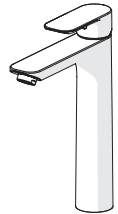
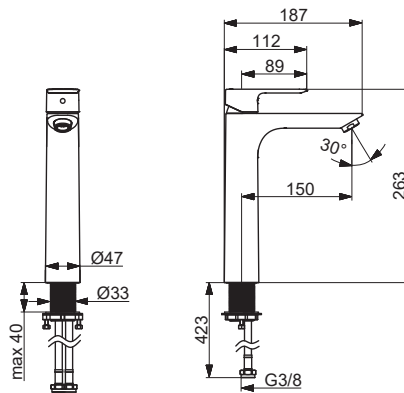
I (ISO 3822)
EN 817
50 - 1000 kPa
0.08 l/s (300 kPa w/Controller)
max. +70°C



mpi.oras.com/1611FN

1601FN

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

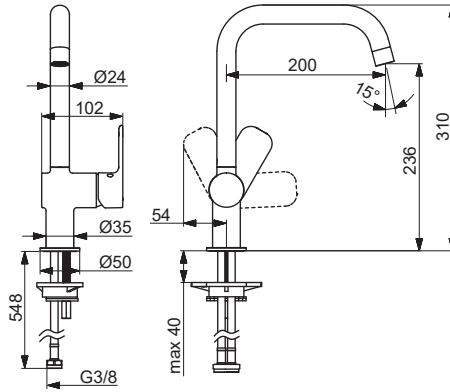


mpi.oras.com/1601FN



1631FN

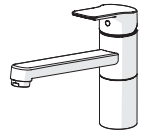
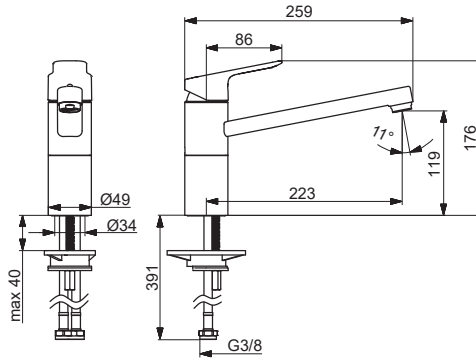
I (ISO 3822)
 EN 817
 50 - 1000 kPa
 0.2 l/s (300 kPa)
 max. +70°C



mpi.oras.com/1631FN

1630FN

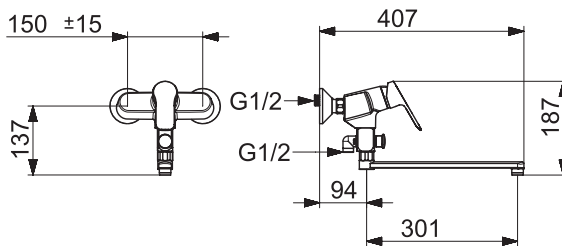
I (ISO 3822)
 EN 817
 50 - 1000 kPa
 0.18 l/s (300 kPa)
 max. +70°C



mpi.oras.com/1630FN

1642NY

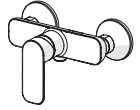
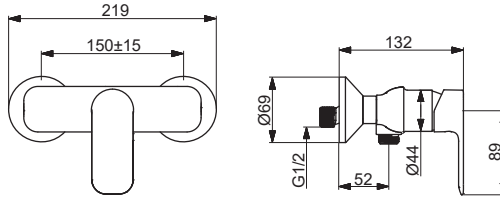
I (ISO 3822)
 EN 817
 50 - 1000 kPa
 0.23 l/s (300 kPa)
 max. +80°C



mpi.oras.com/1642NY

1660NU

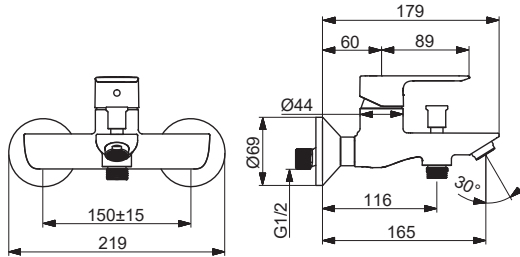
I (ISO 3822)
EN 817
50 - 1000 kPa
0.21 l/s (300 kPa)
max. +80°C



mpi.oras.com/1660NU

1640NU

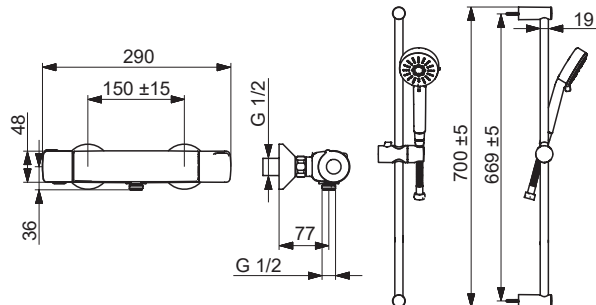
I (ISO 3822)
EN 817
50 - 1000 kPa
0.36/ 0.22 l/s (300 kPa)
max. +80°C



mpi.oras.com/1640NU

1669NU

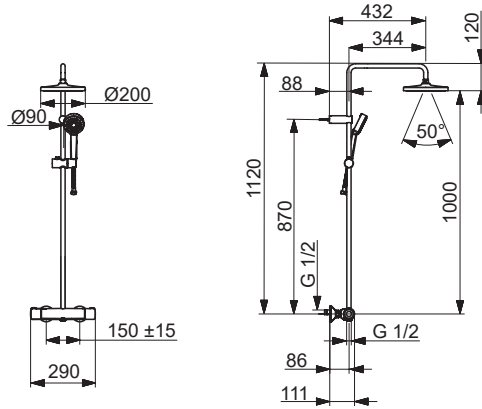
I (ISO 3822)
EN 1111
100 - 1000 kPa
0.16 l/s (300 kPa Eco)
0.19 l/s (300 kPa)
max. +65°C



mpi.oras.com/1669NU

1692NU

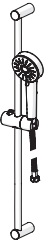
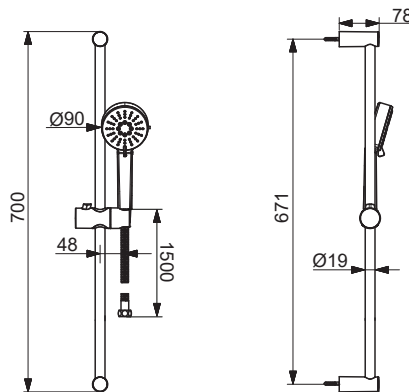
I (ISO 3822)
 EN 1111, EN 1112, EN 1113
 100 - 1000 kPa
 0.18/ 0.24 l/s (300 kPa)
 max. +65°C



mpi.oras.com/1692NU

1690N

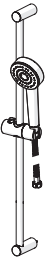
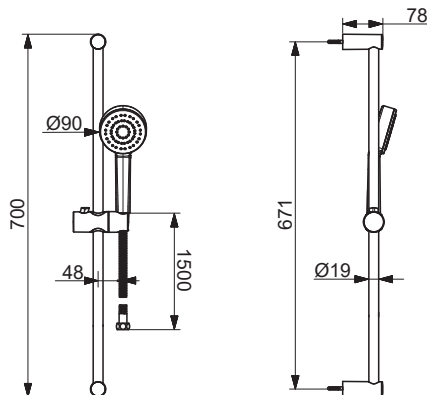
EN 1112, EN 1113
 50 - 500 kPa
 0.19 l/s (300 kPa)
 max. +65°C



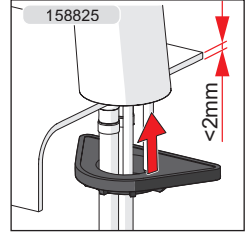
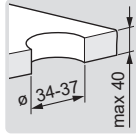
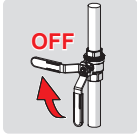
mpi.oras.com/1690N

1691N

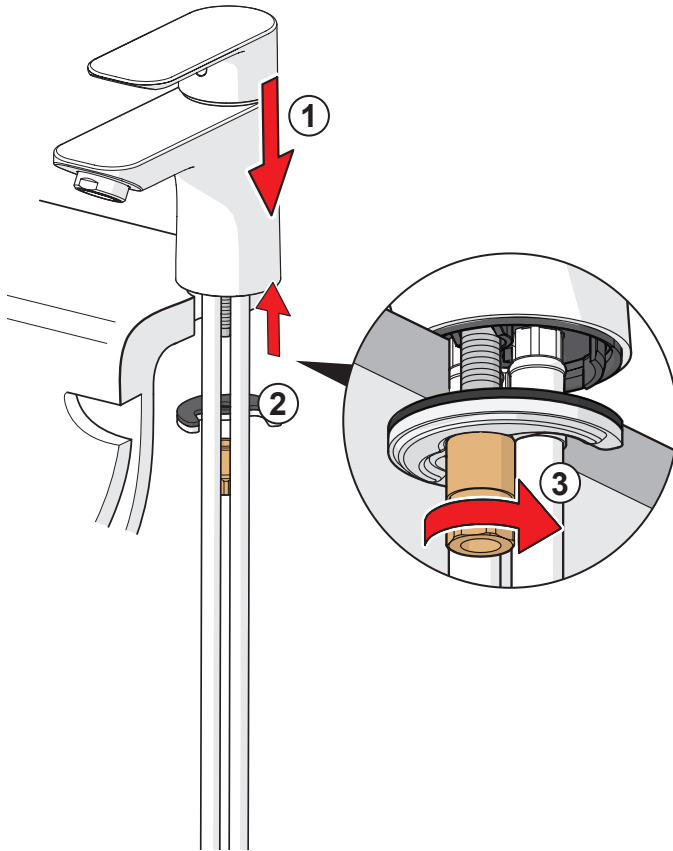
EN 1112, EN 1113
 50 - 500 kPa
 0.2 l/s (300 kPa)
 max. +65°C

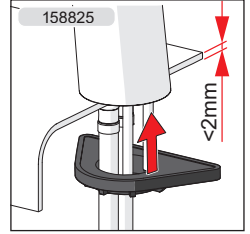
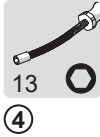
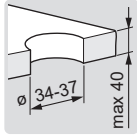
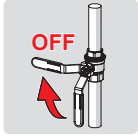


mpi.oras.com/1691N

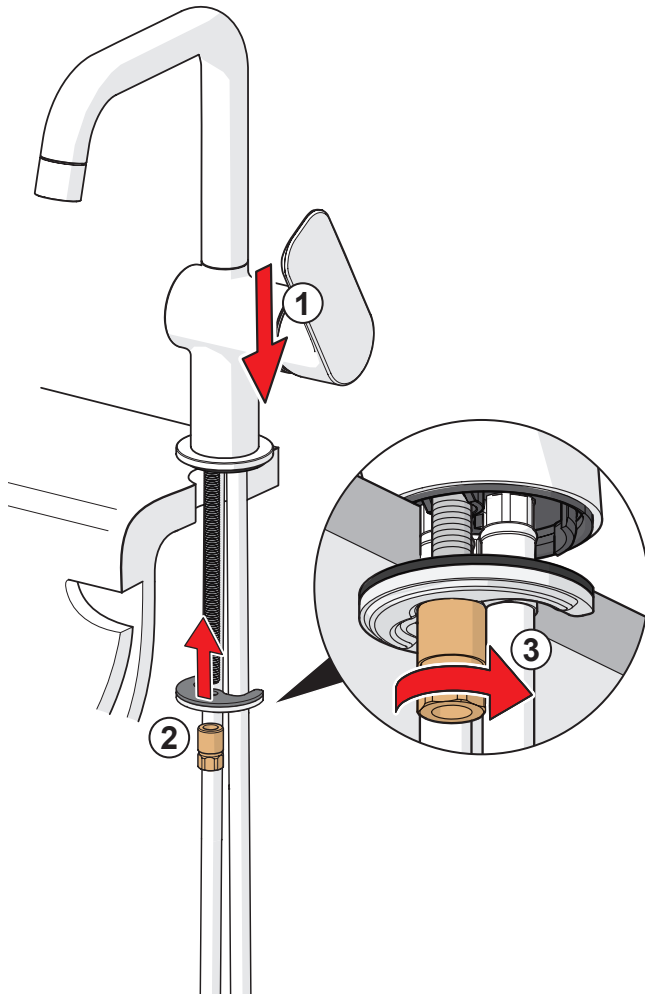


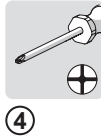
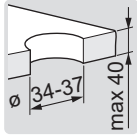
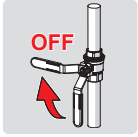
1 A



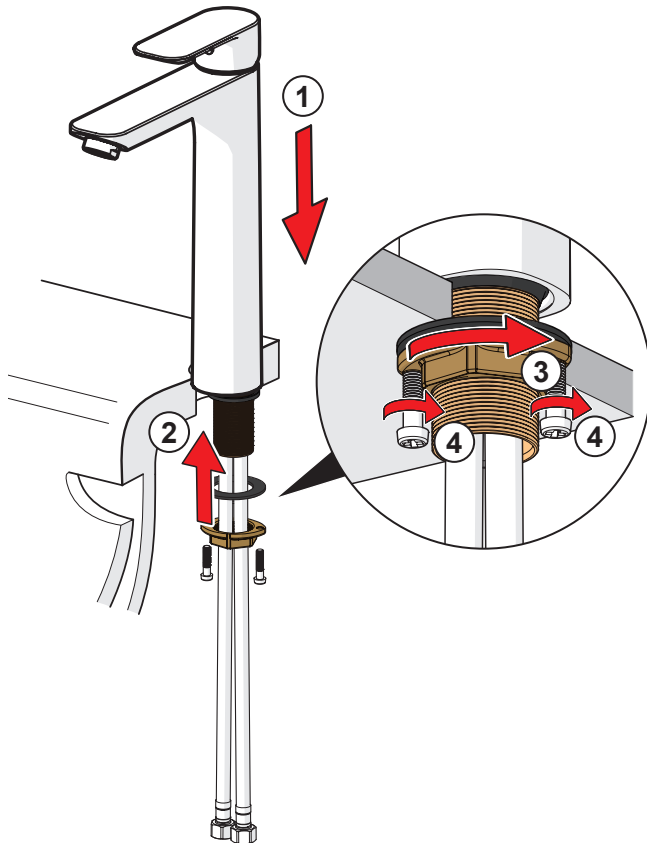


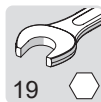
1 B





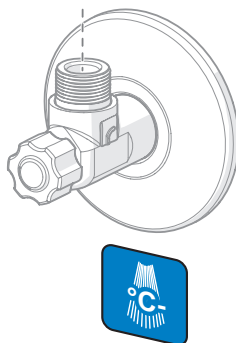
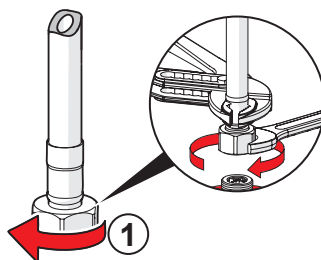
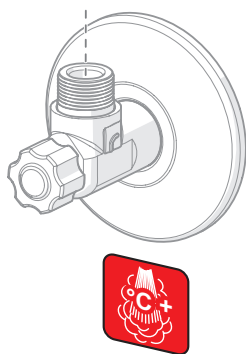
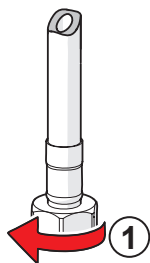
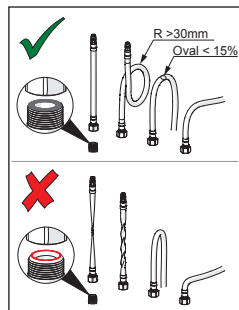
1 C

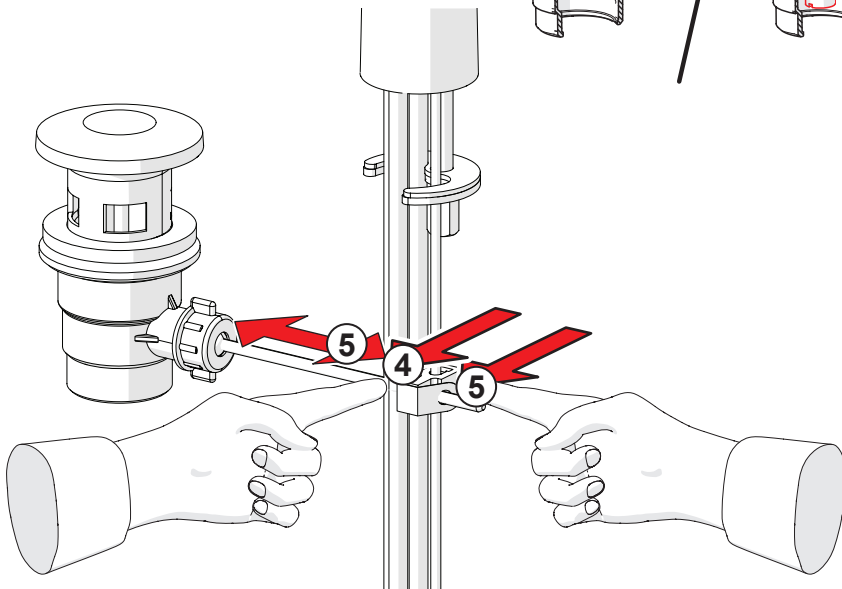
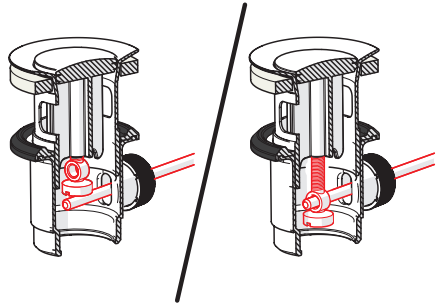
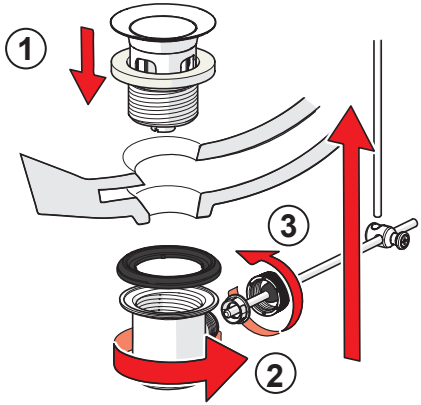
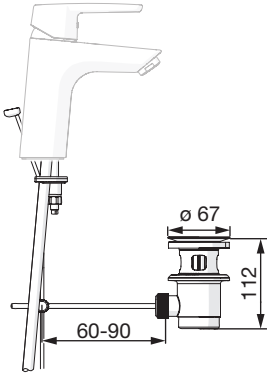


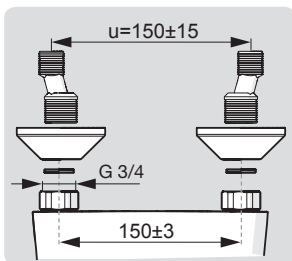
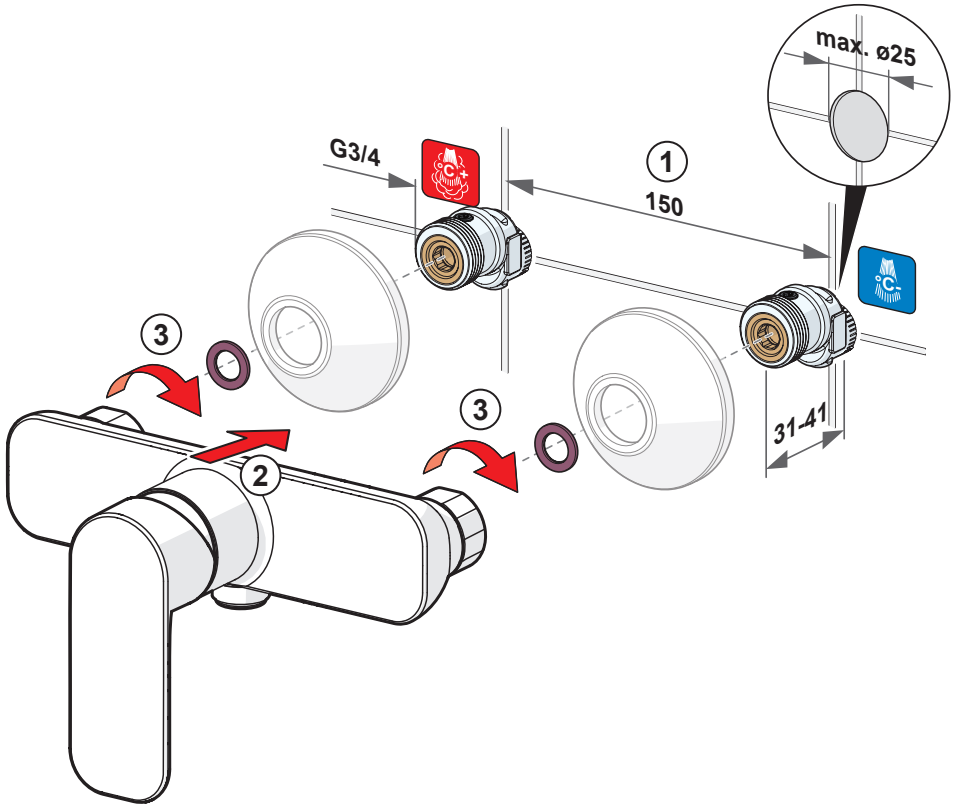
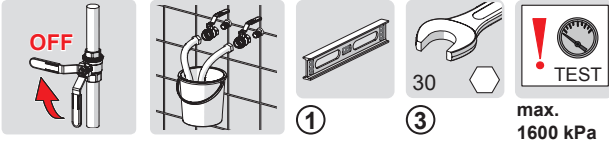


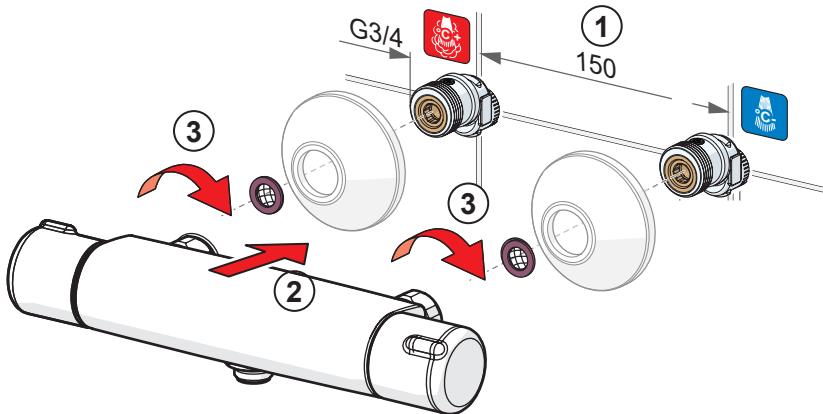
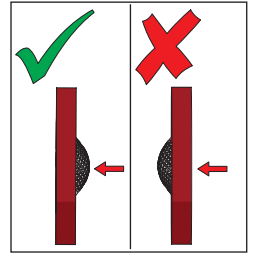
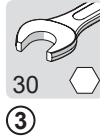
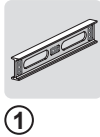
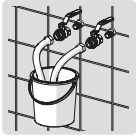
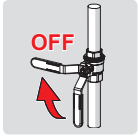
①

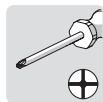
2



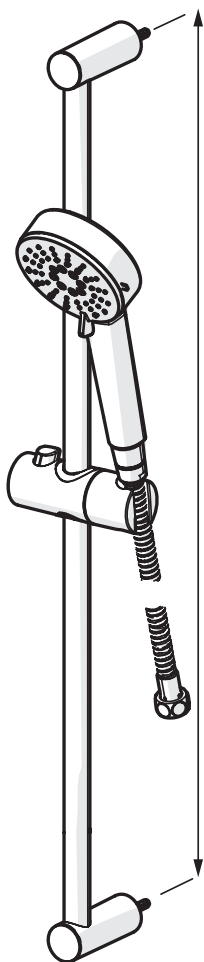
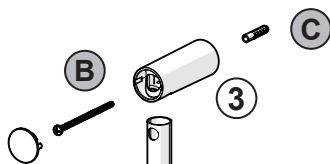




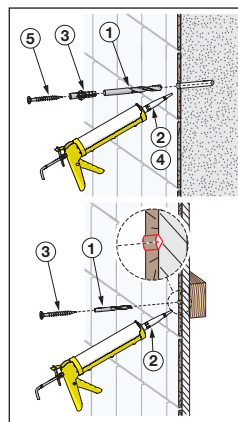
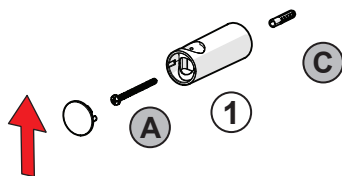
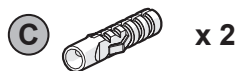
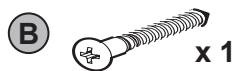
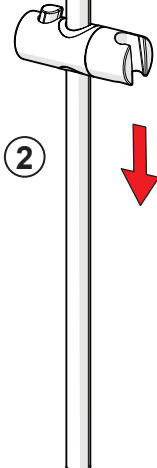


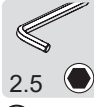


① ③



669 ±5





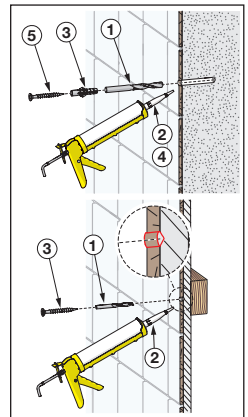
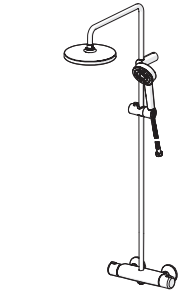
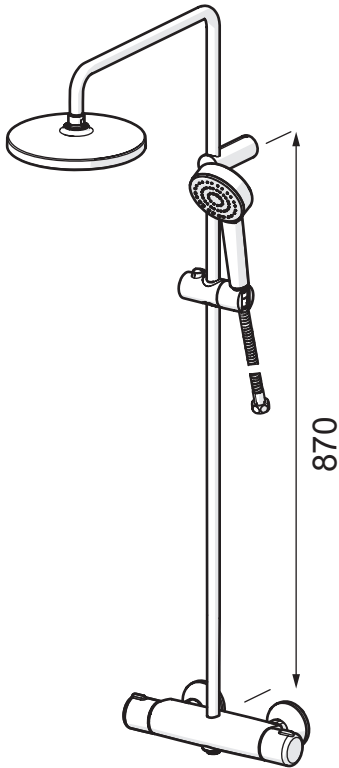
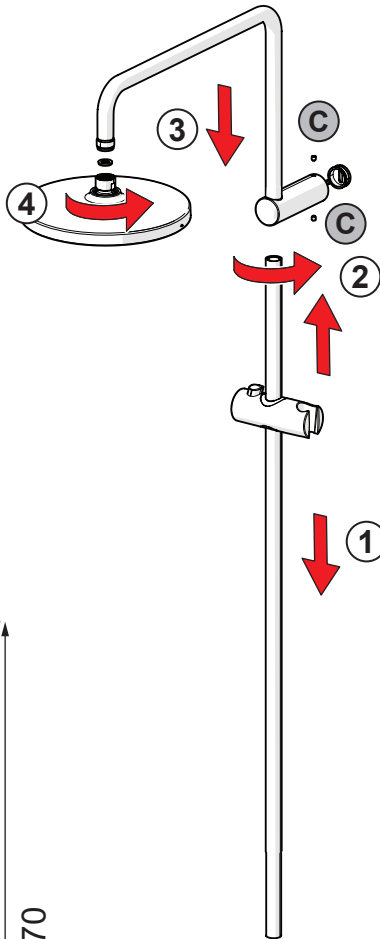
2.5

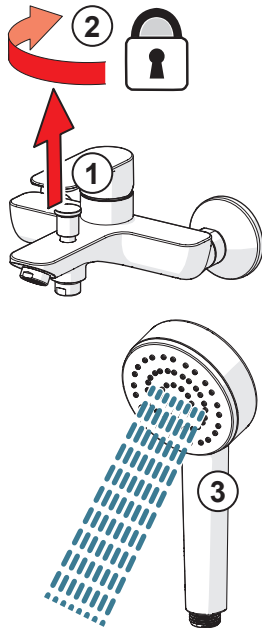
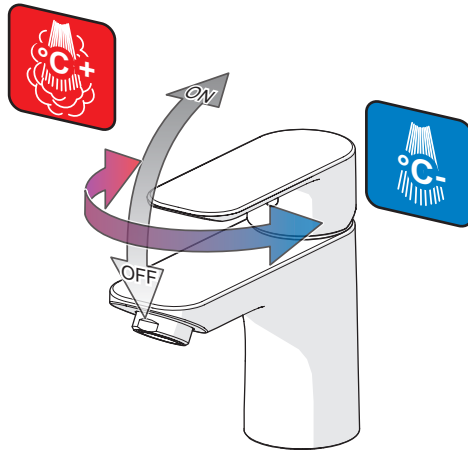
②

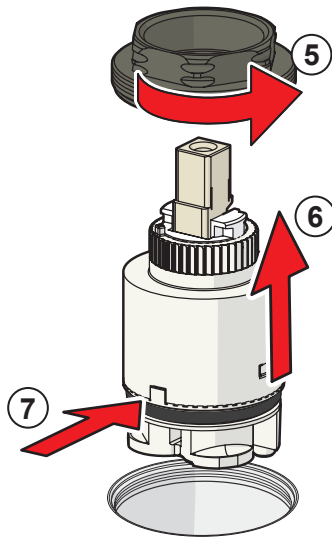
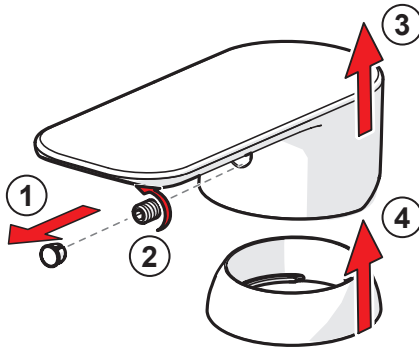
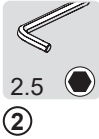
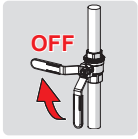


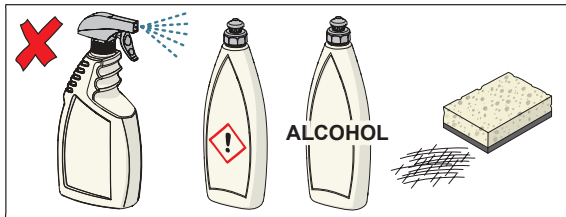
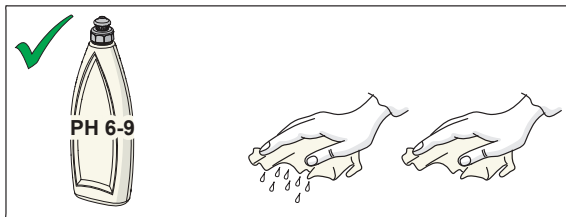
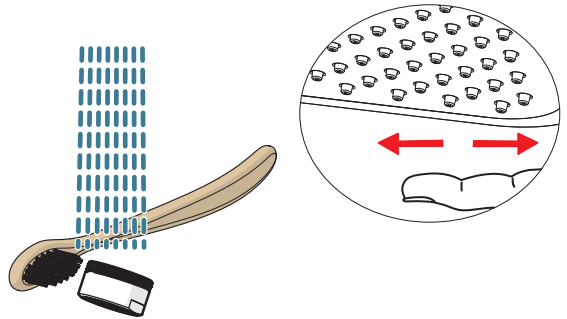
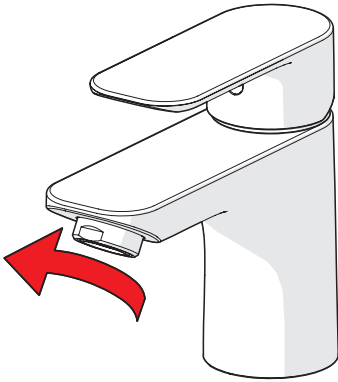
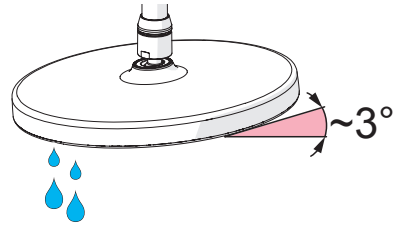
22

③









cleaning.oras.com

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.

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



943494-01-25