



# Installation and Maintenance Guide

Oras Vienda

Water Is Worth Loving.

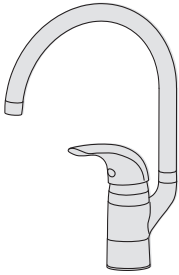


- GB** Thank you for selecting an Oras product. This installation and maintenance guide will introduce you to the installation, functions, and use of the faucet. Please read the guide carefully before installation, and keep it on hand for any potential future maintenance. If an operating malfunction or fault appears in your faucet, a plumbing professional is your best source of assistance. Information on cleaning the faucet, conditions of use, and warranty terms is available in the brochure that came with your product: "Important notes on Oras products".
- CZ** Děkujeme za výběr produktu Oras. Tento návod pro instalaci a údržbu Vás provede montáží, funkcí a použitím vodovodní baterie. Prosíme čtětě návod pozorně ještě před montáží samotné baterie a uschovejte pro případ možné další údržby. V případě výskytu jakýchkoli problémů s Vaší baterií je profesionální instalatér nejlepší možnou volbou pro asistenci při řešení těchto problémů. Informace jak čistit, používat vodovodní baterii a záruční podmínky jsou uvedeny v brožuře „Important notes on Oras products“, která Vám je dodána zároveň s výrobkem Oras.
- DE** Vielen Dank, dass Sie sich für ein Oras Produkt entschieden haben. Dieser Wartungs- und Installationshandbuch gibt Ihnen Informationen über die Installation, Funktion und Handhabung der Armatur. Bitte lesen Sie sich vor der Installation der Armatur diese Anleitung genau durch und verwahren Sie diese für evtl. zukünftige Wartungen auf. Bei einer Fehlfunktion der Armatur ist Ihr Fachhandwerker der beste Ansprechpartner. Informationen zur Reinigung, Handhabung sowie Garantie können Sie dem Prospekt „Important notes on Oras products“ (Wichtige Informationen über Oras Produkte) entnehmen, der Ihrer Armatur beiliegt.
- DK** Täname, et valisite Orase toote. Käesolev paigaldus- ja hooldusjuhend tutvustab Teile segisti paigaldamist, tööpõhimõtteid ning kasutamist. Palume Teil enne segisti paigaldamist käesoleva juhendiga hoolikalt tutvuda ning säilitada see võimalike tulevaste hoolduste tarbeks. Häirete korral segisti töös soovitame Teil pöörduda ala asjatundja poole. Info segisti puhastamise, kasutamise ja garantiitingimuste kohta leiate segistiga kaasasolevast brošüürist "Important notes on Oras products".
- EE** Tak fordi du valgte et Oras produkt. Denne installations- og vedligeholdelses guide vil guide dig gennem installationen, funktionerne og brugen af armaturet. Læs venligst denne guide igennem inden installationen og gem den til senere brug. Hvis der mod forventning skulle opstå problemer med armaturet, er den bedste løsning at kontakte en autoriseret VVS installatør. Information om rengøring og brug af armaturet samt garantivilkår findes i brochuren der fulgte med dit armatur: "Important notes on Oras products".
- ES** Gracias por seleccionar un producto de Oras. Esta guía de instalación y de mantenimiento le dará a conocer la instalación, las funciones y el uso de la grifería. Por favor, lea la guía cuidadosamente antes de la instalación, y téngala a mano para cualquier mantenimiento que tuviera que realizar en un futuro potencial. Si un mal funcionamiento o defecto de funcionamiento apareciera en su grifo, un profesional instalador es su mejor fuente de asistencia. Información sobre la limpieza del grifo, las condiciones de uso y condiciones de la garantía está disponible en el folleto que acompaña al producto: "Notas importantes sobre los productos Oras".
- FI** Kiitos, että valitsitte Oras tuotteen. Tämä asennus- ja huolto-ohje tutustuttaa teidät hanan asennukseen, toimintaan ja käyttöön. Lukekaa ohje huolellisesti ennen asennusta. Säästäkää ohje mahdollisia myöhempiä huoltotoimenpiteitä varten. Mikäli hanassanne ilmenee jokin toimintahäiriö tai vika, LVI-asiantuntija pystyy antamaan parhaan mahdollisen avun. Hanan puhdistuksesta, käyttöolosuhteista ja takuuehdoista voit lukea tuotteen mukana tulleesta "Important notes on Oras products"-vihkosesta.
- FR** Merci d'avoir choisi un produit Oras. Veuillez lire attentivement cette notice, afin de vous familiariser avec l'utilisation et les fonctions de l'appareil. Conservez ce document, afin, le cas échéant, de pouvoir à nouveau le consulter. En cas de problème, votre plombier est votre meilleur atout. Vous trouverez dans la brochure des informations pour le nettoyage du produit, les garanties, sous la rubrique « notice importante sur les produits Oras ».
- IT** Grazie per aver scelto un prodotto Oras. Il manuale di installazione e manutenzione vi introdurrà all'installazione, alle funzioni, ed all'uso del rubinetto. Si prega di leggere attentamente il manuale prima dell'installazione, e tenerlo a portata di mano per qualsiasi intervento di manutenzione futura. Se si manifesta un malfunzionamento di esercizio o difetto sul vostro rubinetto, un idraulico professionista è la migliore fonte di assistenza. Informazioni sulla pulizia del rubinetto, le condizioni d'uso e condizioni di garanzia sono disponibili nella brochure in dotazione con il prodotto: "Note importanti per i prodotti Oras".

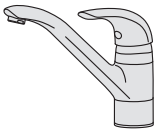
- LT** Ačiū, kad pasirinkote „Oras“ gaminį. Šis instaliavimo ir eksploataavimo vadovas supažindins jus su maišytuvo instaliavimu, funkcijomis ir naudojimo ypatybėmis. Prašome dėmesingai perskaityti šį vadovą prieš gaminio instaliavimą ir laikyti jį prieinamoje vietoje galimam aptarnavimo atvejui. Jeigu eksploatacijos metu atsirastų gaminio sutrikimų ar defektų geriausias jūsų patarėjas būtų profesionalus santechnikas. Informaciją apie gaminio valymą, naudojimo ir garantinio aptarnavimo sąlygas atrasite prie gaminio pridėtoje brošiūroje „Svarbūs „Oras“ gaminių priežiūros nurodymai“.
- LV** Paldies, ka izvēlējāties Oras produktus. Šis uzstādīšanas un apkopes ceļvedis iepazīstina ar jaucējkāru uzstādīšanu, darbību un lietojamību. Lūdzu uzmanīgi izlasiet ceļvedi pirms darbu uzsākšanas un saglabājiet to kā izziņas avotu apkopes darbu veikšanai nākotnē. Profesionāls santehniķis būtu labākais atbalsts gadījumos, ja jaucējkārā rodas funkcionāli traucējumi. Jaucējkārā tīrīšanas un lietošanas norādījumi, garantijas noteikumi ir pieejami jūsu produktam pievienotā brošūrā „Svarīgi norādījumi par Oras jaucējkāru apkopi“.
- NL** Dank u wel voor het kiezen van een Oras product. Deze installatie- en onderhoudsgids zal u de weg wijzen voor installatie, functies en gebruik van de kraan. Gelieve de handleiding aandachtig te lezen alvorens installatie, en houdt het bij de hand voor toekomstig onderhoud. Wanneer er een gebruiksprobleem of fout in uw kraan merkbaar wordt, dan is een professionele loodgieter de aangewezen hulp. Informatie over hoe de kraan te poetsen, gebruiksvoorwaarden, en garantievoorwaarden is terug te vinden in de brochure die met uw kraan werd opgestuurd: „belangrijke nota's over Oras producten“.
- NO** Tusen takk for at du valgte et produkt fra Oras. Denne installasjons- og monteringsveilederen forteller deg hvordan dette produktet installeres, fungerer og brukes. Vær vennlig å les veilederen før du installerer produktet. Ta vare på veiledningen til evt. senere bruk. Hvis du oppdager feil ved produktet, bør du tilkalle rørlegger. Informasjon om rengjøring av produktet, bruksområder og garanti er tilgjengelig i heftet som lå sammen med produktet: "Viktige bemerkninger om Orasprodukter"
- PL** Dziękujemy za wybór produktów Oras. Przedstawiamy instrukcję instalacji i konserwacji, która zawiera wskazówki odnośnie instalacji, funkcjonalności oraz użytkowania baterii Oras. Prosimy przeczytać uważnie instrukcję przed instalacją i zachować ją dla potrzeb przyszłej konserwacji. W razie awarii podczas użytkowania lub pojawienia się wady baterii najlepszym źródłem pomocy jest profesjonalny serwis Oras. Informacje dotyczące czyszczenia baterii, sposobu użytkowania oraz warunków gwarancji są dostępne w załączonej do baterii broszurce "Important notes on Oras products".
- RO** Vă mulțumim pentru alegerea unui produs Oras. Acest ghid de instalare și întreținere vă prezintă modalitatea de instalare, funcțiile și modul de exploatare a bateriei. Parcurgeți cu atenția acest ghid înainte de instalare și păstrați-l la îndemână pentru efectuarea potențialelor operațiuni ulterioare de întreținere. În situația în care, pe parcursul exploatării bateriei, apare o disfuncționalitate sau o defecțiune, cea mai bună sursă de asistență o reprezintă un instalator profesionist. Informații referitoare la curățirea bateriei, condițiile de exploatare și termenii de garanție puteți consulta în broșura "Note importante referitoare la produsele Oras", care v-a fost livrată împreună cu produsul pe care l-ați achiziționat.
- RU** Благодарим Вас за выбор продукции Орас. Из этой инструкции Вы узнаете о функциях смесителя и о порядке его установки и эксплуатации. Пожалуйста, внимательно прочитайте эту инструкцию перед установкой смесителя, и держите её под рукой на случай возникновения вопросов или необходимости обслуживания смесителя. В случае нарушения работы смесителя рекомендуем Вам обращаться к квалифицированным специалистам. Информация об уходе за смесителем, рекомендациях по его эксплуатации и условиях гарантии изложена в прилагаемой брошюре «Important notes on Oras products».
- SE** Tack för att du valt en produkt från Oras. Den här installations- och skötselanvisningen kommer att guida dig igenom blandarens installation, funktion och användande. Läs igenom anvisningen noggrant innan installation av blandaren och spara den för eventuella framtida servicebehov. Om ett funktionsfel uppstår bör du vända dig till en professionell hantverkare för hjälp. Allmänna råd angående installation samt information om blandarens användning, rengöring och dess garantivillkor finner du i foldern "important notes on Oras products" som följer med din produkt.
- SK** Ďakujeme za výber produktu Oras. Tento návod pre inštaláciu a údržbu Vás prevedie montážou, funkciou a použitím vodovodnej batérie. Prosíme čítajte návod pozorne ešte pred montážou samotnej batérie a uschovajte pre prípad nožnej ďalšej údržby. V prípade výskytu akýchkoľvek problémov s Vašou batériou je profesionálny inštalatér najlepšou možnou voľbou pre asistenciu pri riešení týchto problémov. Informácie ako čistiť, používať vodovodnú batériu a záručné podmienky sú uvedené v brožure „Important notes on Oras products“, ktorá Vám je dodaná zároveň s výrobkom Oras.



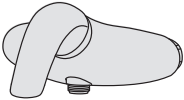
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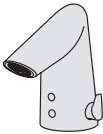
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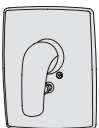
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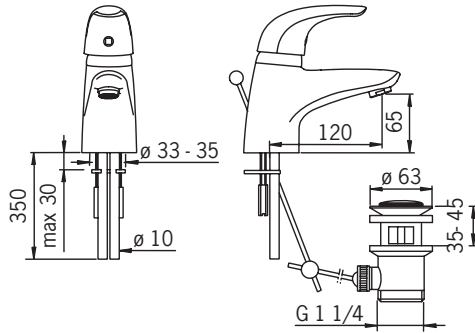
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## 1704

EN 817  
I (ISO 3822)  
50 - 1000 kPa  
0.21 l/s (300 kPa)  
70 kPa (0.1 l/s)  
max. +80°C



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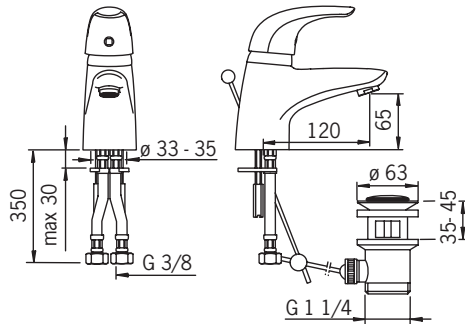


## 1704F

EN 817  
I (ISO 3822) Oras lab.  
50 - 1000 kPa  
0.19 l/s (300 kPa)  
85 kPa (0.1 l/s)  
max. +80°C



ACS 07 ACC NY 531  
CSTB 348-M1-11/1

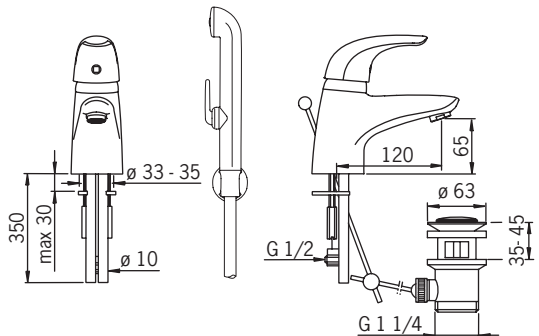


## 1708

EN 817  
I (ISO 3822)  
50 - 1000 kPa  
0.15 l/s (300 kPa)  
135 kPa (0.1 l/s)  
max. +80°C

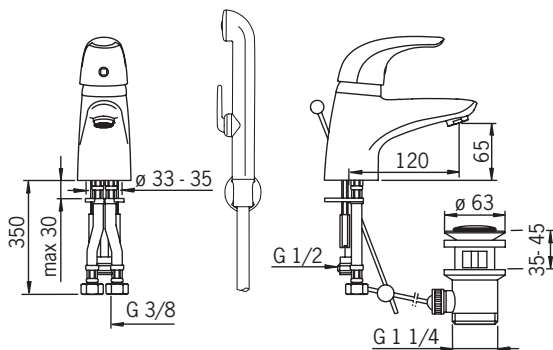


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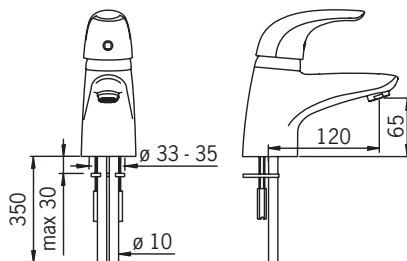
## 1708F

EN 817  
I (ISO 3822) Oras lab.  
50 - 1000 kPa  
0.14 l/s (300 kPa)  
150 kPa (0.1 l/s)  
max. +80°C



## 1710

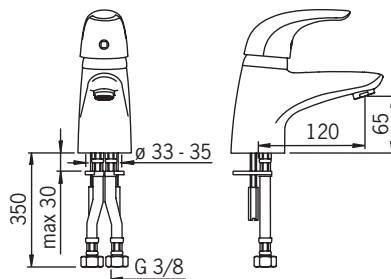
EN 817  
I (ISO 3822)  
50 - 1000 kPa  
0.21 l/s (300 kPa)  
70 kPa (0.1 l/s)  
max. +80°C



VA 1.42/18332  
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## 1710F

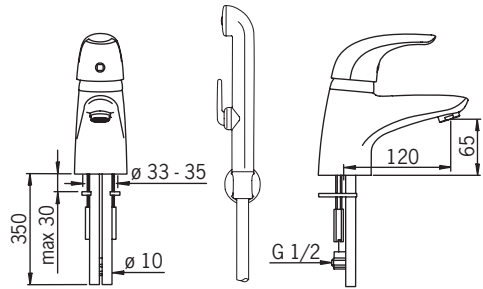
EN 817  
I (ISO 3822) Oras lab.  
50 - 1000 kPa  
0.19 l/s (300 kPa)  
85 kPa (0.1 l/s)  
max. +80°C



ACS 07 ACC NY 531

## 1712

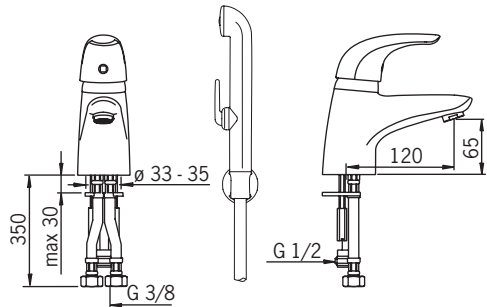
EN 817  
I (ISO 3822)  
50 - 1000 kPa  
0.15 l/s (300 kPa)  
135 kPa (0.1 l/s)  
max. +80°C



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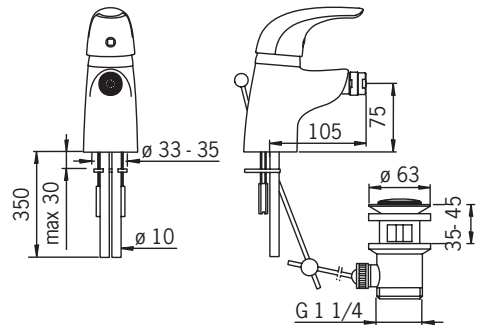
## 1712F

EN 817  
I (ISO 3822) Oras lab.  
50 - 1000 kPa  
0.14 l/s (300 kPa)  
150 kPa (0.1 l/s)  
max. +80°C



## 1718

EN 817  
I (ISO 3822)  
50 - 1000 kPa  
0.2 l/s (300 kPa)  
70 kPa (0.1 l/s)  
max. +80°C



VA 1.42/18333  
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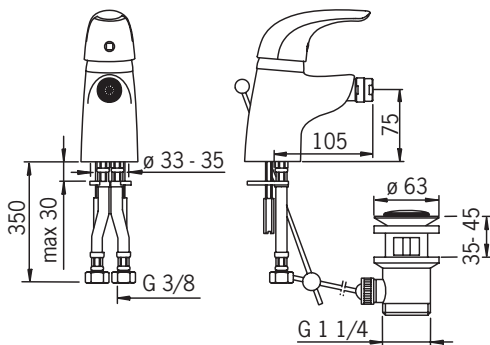


# 1718F

EN 817  
 I (ISO 3822) Oras lab.  
 50 - 1000 kPa  
 0.19 l/s (300 kPa)  
 85 kPa (0.1 l/s)  
 max. +80°C



ACS 07 ACC NY 531  
 CSTB 348-M1-11/1

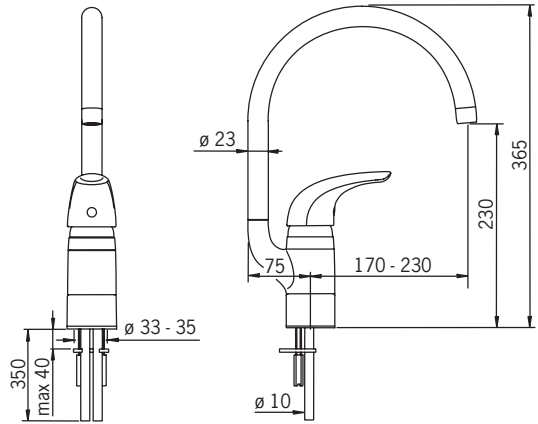


## 1738

EN 817  
I (ISO 3822)  
50 - 1000 kPa  
0.27 l/s (300 kPa)  
165 kPa (0.2 l/s)  
max. +80°C



VA 1.42/18334  
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Sintef Nr. 0227

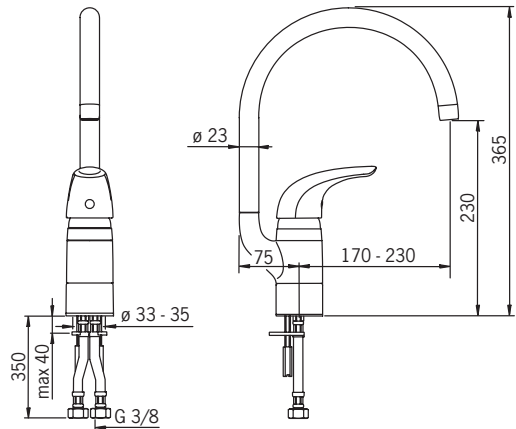


## 1738F

EN 817  
I (ISO 3822) Oras lab.  
50 - 1000 kPa  
0.23 l/s (300 kPa)  
225 kPa (0.2 l/s)  
max. +80°C



VA 1.42/18334  
ACS 07 ACC NY 531

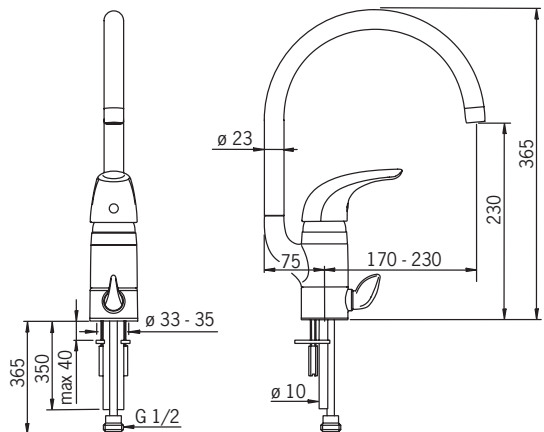


## 1739

EN 817  
I (ISO 3822)  
50 - 1000 kPa  
0.27 l/s (300 kPa)  
165 kPa (0.2 l/s)  
max. +80°C



VA 1.42/18334  
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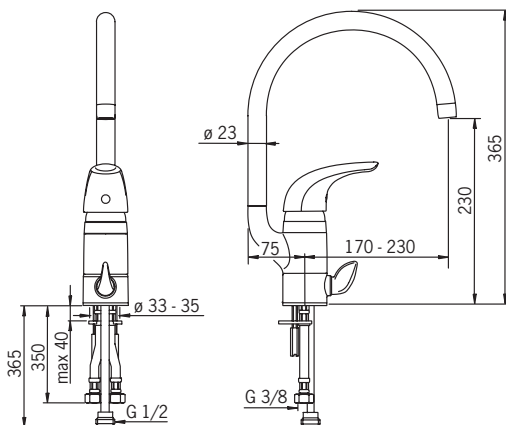


## 1739F

EN 817  
I (ISO 3822) Oras lab.  
50 - 1000 kPa  
0.23 l/s (300 kPa)  
225 kPa (0.2 l/s)  
max. +80°C



VA VA 1.42/18335

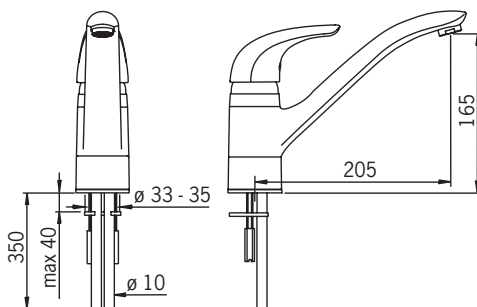


## 1720

EN 817  
I (ISO 3822)  
50 - 1000 kPa  
0.27 l/s (300 kPa)  
160 kPa (0.2 l/s)  
max. +80°C



VA VA 1.42/18335  
STF VTT-RTH-00099-11  
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Sintef Nr. 0227

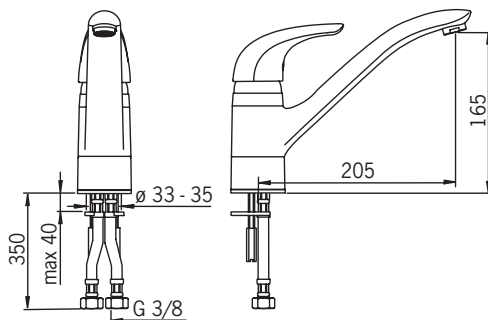


## 1720F

EN 817  
I (ISO 3822)  
50 - 1000 kPa  
0.24 l/s (300 kPa)  
210 kPa (0.2 l/s)  
max. +80°C



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CSTB 348-M1-11/1



## 1725

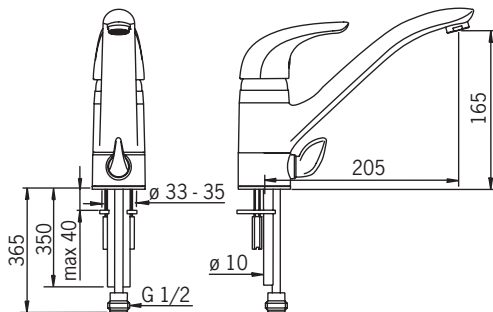
EN 817  
I (ISO 3822)  
50 - 1000 kPa  
0.27 l/s (300 kPa)  
160 kPa (0.2 l/s)  
max. +80°C



STF VTT-RTH-00099-11

VA 1.42/18335

Sintef Nr. 0228

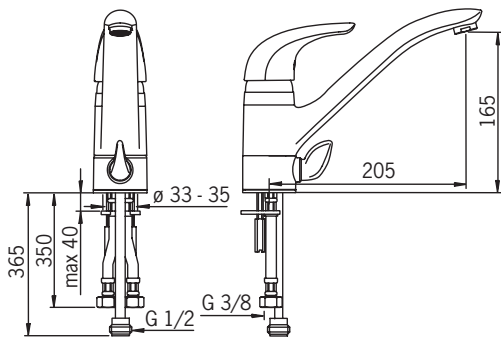


## 1725F

EN 817  
I (ISO 3822) Oras lab.  
50 - 1000 kPa  
0.24 l/s (300 kPa)  
210 kPa (0.2 l/s)  
max. +80°C



ACS 07 ACC NY 531

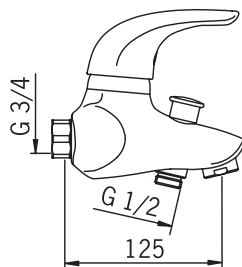
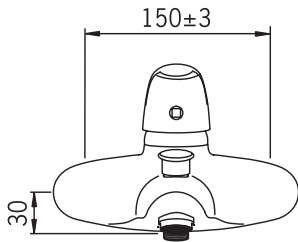


## 1740

EN 817  
 III (ISO 3822)  
 50 - 1000 kPa  
 0.34 l/s (300 kPa)  
 155 kPa (0.2 l/s)  
 230 kPa (0.3 l/s)  
 max. +80°C



VA 1.42/18337  
 KIWA K6345/07  
 Sintef Nr. 0126

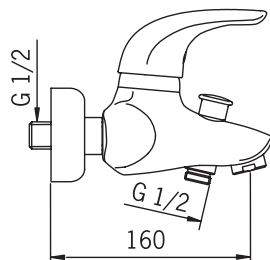
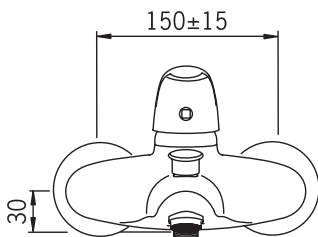


## 1740U

EN 817  
 II (ISO 3822) Oras lab.  
 50 - 1000 kPa  
 0.34 l/s (300 kPa)  
 155 kPa (0.2 l/s)  
 230 kPa (0.3 l/s)  
 max. +80°C

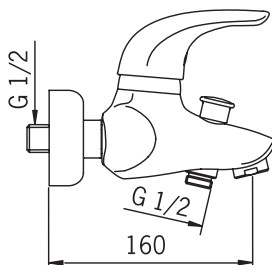
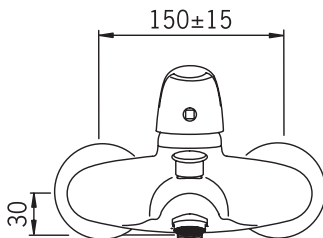


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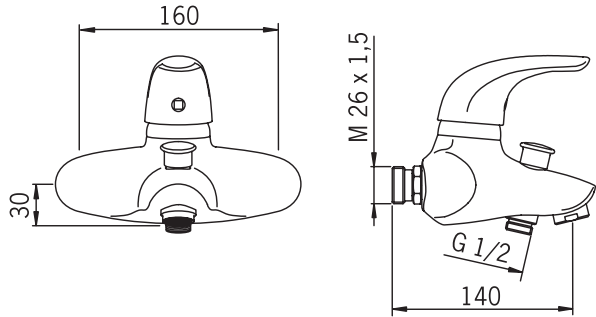
## 1740Y

EN 817  
 III (ISO 3822) Oras lab.  
 50 - 1000 kPa  
 0.34 l/s (300 kPa)  
 155 kPa (0.2 l/s)  
 230 kPa (0.3 l/s)  
 max. +80°C



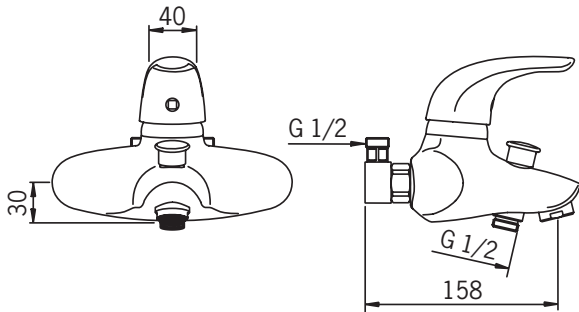
## 1743

EN 817  
 III (ISO 3822) Oras lab.  
 50 - 1000 kPa  
 0.34 l/s (300 kPa)  
 155 kPa (0.2 l/s)  
 230 kPa (0.3 l/s)  
 max. +80°C



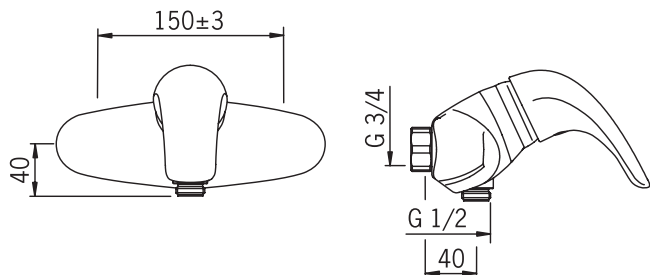
## 1746

EN 817  
 III (ISO 3822) Oras lab.  
 50 - 1000 kPa  
 0.33 l/s (300 kPa)  
 165 kPa (0.2 l/s)  
 250 kPa (0.3 l/s)  
 max. +80°C



## 1760

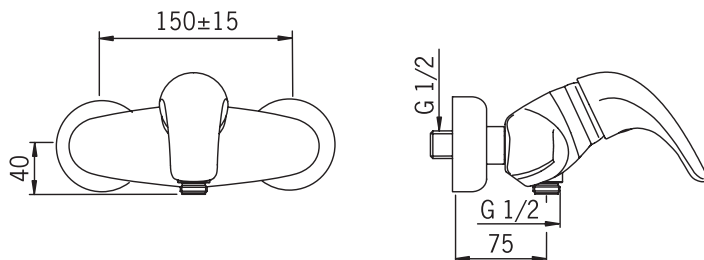
EN 817  
 II (ISO 3822) Oras lab.  
 50 - 1000 kPa  
 0.27 l/s (300 kPa)  
 160 kPa (0.2 l/s)  
 max. +80°C



VD VA 1.42/18336  
 KIWA K6345/07

## 1760U

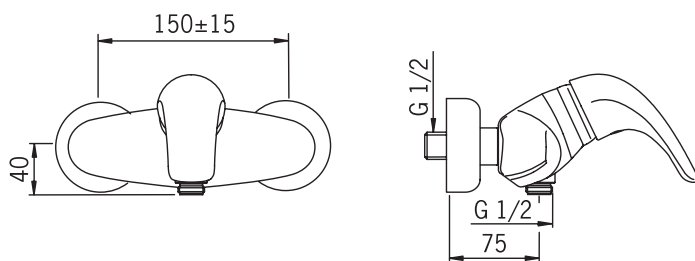
EN 817  
 II (ISO 3822) Oras lab.  
 50 - 1000 kPa  
 0.27 l/s (300 kPa)  
 155 kPa (0.2 l/s)  
 max. +80°C



ACS 08 ACC NY 095  
 KIWA K6345/07

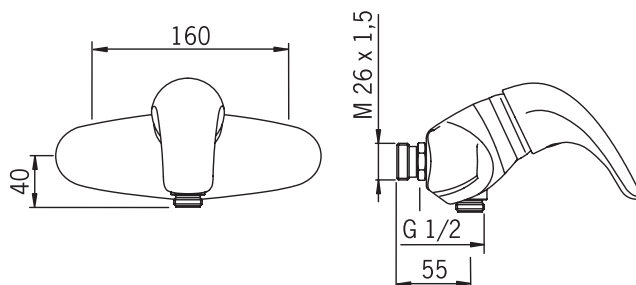
## 1760Y

EN 817  
 II (ISO 3822) Oras lab.  
 50 - 1000 kPa  
 0.28 l/s (300 kPa)  
 155 kPa (0.2 l/s)  
 max. +80°C



## 1763

EN 817  
 II (ISO 3822) Oras lab.  
 50 - 1000 kPa  
 0.27 l/s (300 kPa)  
 160 kPa (0.2 l/s)  
 max. +80°C



# 1766

EN 817

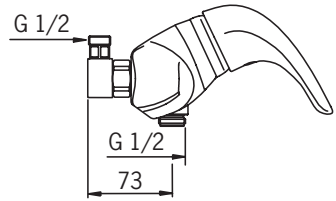
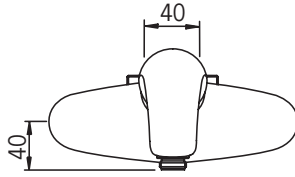
II (ISO 3822) Oras lab.

50 - 1000 kPa

0.25 l/s (300 kPa)

190 kPa (0.2 l/s)

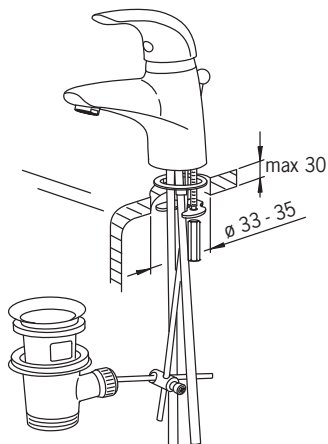
max. +80°C



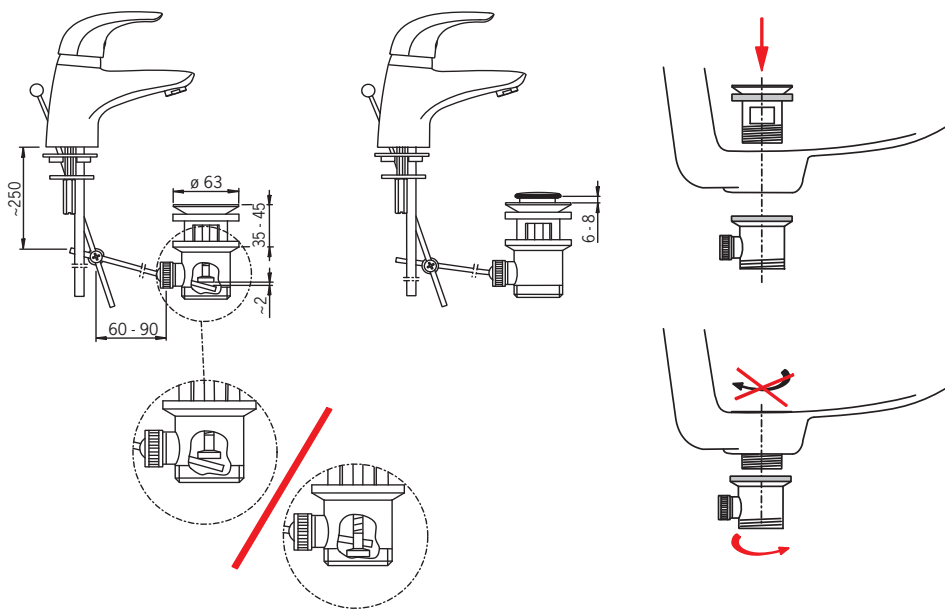
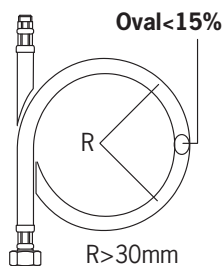


# Installation

<b>CZ</b> Montáž	<b>FI</b> Asennus	<b>LV</b> Montāža	<b>RO</b> Instalare
<b>DE</b> Montage	<b>FR</b> Installation	<b>NL</b> Installatie	<b>RU</b> Установка
<b>DK</b> Installation	<b>IT</b> Montaggio	<b>NO</b> Montering	<b>SE</b> Installation
<b>EE</b> Paigaldus	<b>LT</b> Montavimas	<b>PL</b> Instalacja	<b>SK</b> Inštalácia
<b>ES</b> Montaje			

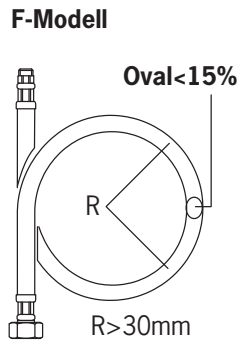
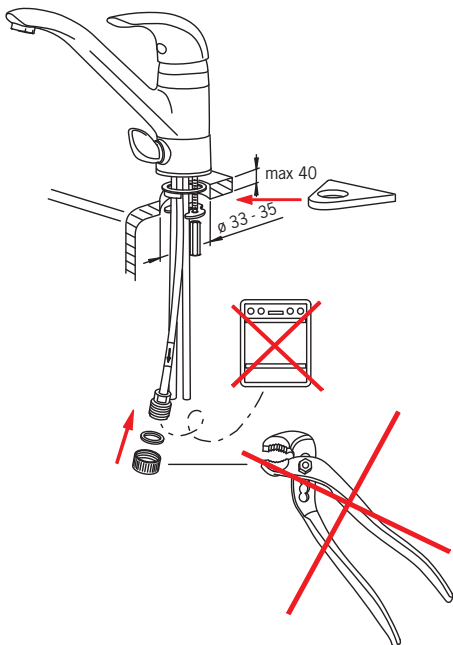
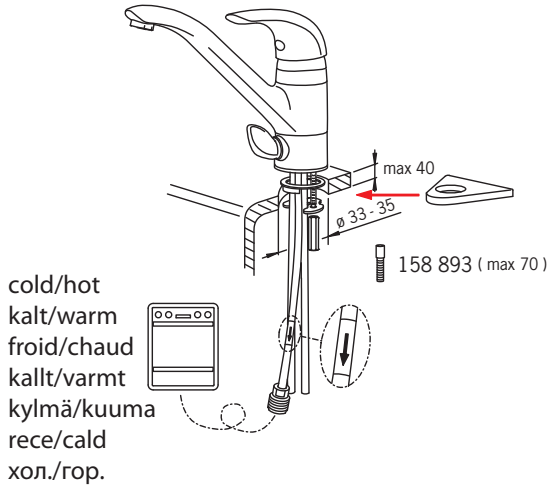


## F-Modell



# Installation

<b>CZ</b> Montáž	<b>FI</b> Asennus	<b>LV</b> Montāža	<b>RO</b> Instalare
<b>DE</b> Montage	<b>FR</b> Installation	<b>NL</b> Installatie	<b>RU</b> Установка
<b>DK</b> Installation	<b>IT</b> Montaggio	<b>NO</b> Montering	<b>SE</b> Installation
<b>EE</b> Paigaldus	<b>LT</b> Montavimas	<b>PL</b> Instalacja	<b>SK</b> Inštalácia
<b>ES</b> Montaje			



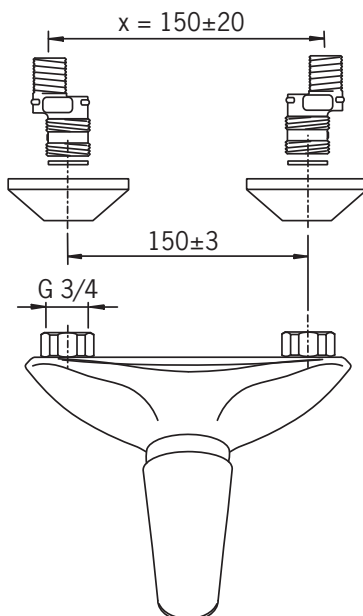
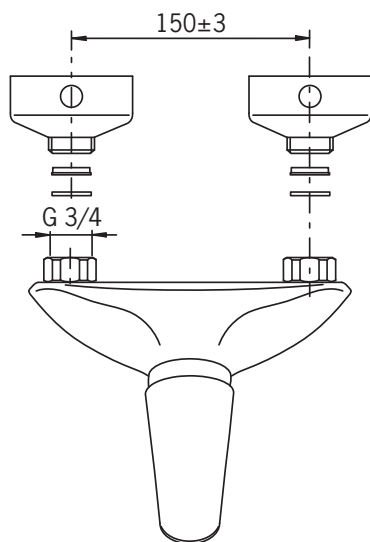
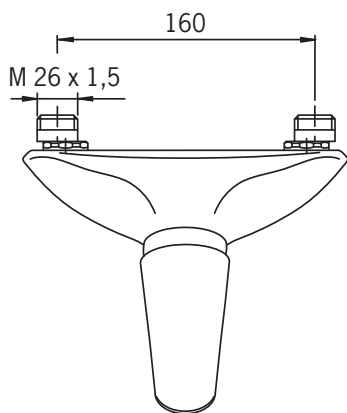
## Installation

**CZ** Montáž  
**DE** Montage  
**DK** Installation  
**EE** Paigaldus  
**ES** Montaje

**FI** Asennus  
**FR** Installation  
**IT** Montaggio  
**LT** Montavimas

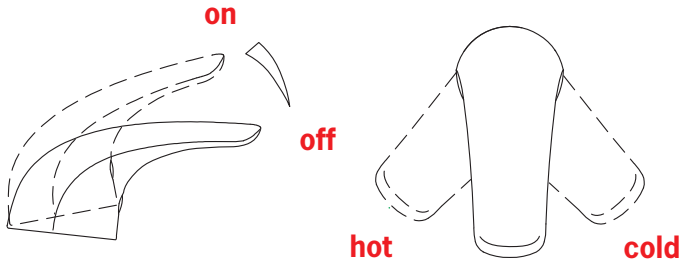
**LV** Montāža  
**NL** Installatie  
**NO** Montering  
**PL** Instalacja

**RO** Instalare  
**RU** Установка  
**SE** Installation  
**SK** Inštalácia



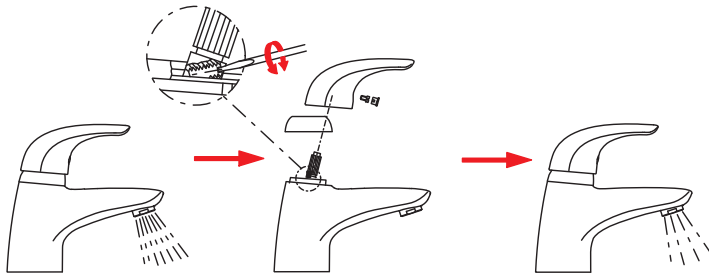
## Operation

<b>CZ</b> Funkce	<b>FI</b> Toiminta	<b>LV</b> Darbības princips	<b>RO</b> Funcționare
<b>DE</b> Funktion	<b>FR</b> Utilisation	<b>NL</b> Bediening	<b>RU</b> Принцип действия
<b>DK</b> Betjening	<b>IT</b> Funzionamento	<b>NO</b> Funksjon	<b>SE</b> Funktion
<b>EE</b> Toimimine	<b>LT</b> Veikimo principas	<b>PL</b> Działanie	<b>SK</b> Prevádzka
<b>ES</b> Servicio			



## Limiting the flow rate

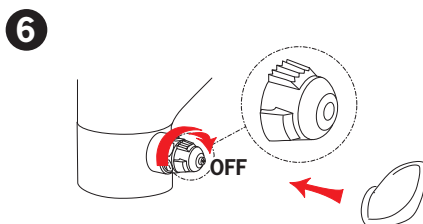
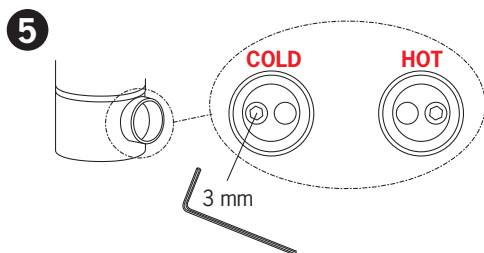
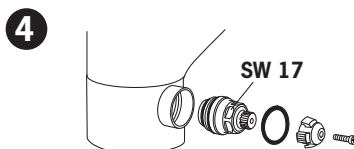
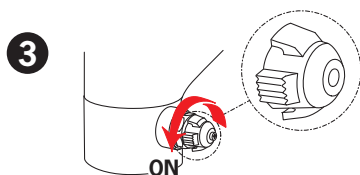
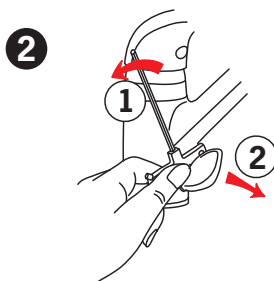
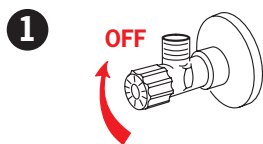
<b>CZ</b> Omezení průtoku	<b>LV</b> Ūdens plūsmas ierobežošana
<b>DE</b> Bergrenzung der Durchflußmenge	<b>NL</b> Begrenzing van de doorstroomhoeveelheid
<b>DK</b> Begrænsning af vandmængden	<b>NO</b> Limitarea debitului
<b>EE</b> Vooluhulga piiramine	<b>PL</b> Ograniczenie wielkości strumienia
<b>ES</b> Limitación de la tasa de flujo	<b>RO</b> Limitarea debitului
<b>FI</b> Virtaaman rajoitus	<b>RU</b> Регулирование потока
<b>FR</b> Limitation du débit	<b>SE</b> Flödesbegränsning
<b>IT</b> Limitazione della portata	<b>SK</b> Obmedzenie prietoku
<b>LT</b> Vandens srovės reguliavimas	



## Changing for hot water

**CZ** Přestavení na horkou vodu  
**DE** Umstellung auf Warmwasseranschluß  
**DK** Omstilling til varmt vand  
**EE** Paigaldamine külma vee asendisse  
**ES** Cambio para agua caliente  
**FI** Muuttaminen kuumalle vedelle  
**FR** Valvole per lavastoviglie o lavatrice  
**IT** Per miscelatore per lavello  
**LT** Ventilio nustatymas karštam vandeniui

**LV** Krano nustatymas karštam vandeniui  
**NL** Chngement pour arrivée eau chaude  
**NO** Omstilling til varmt vann  
**PL** Zmiana na ciepłą wodę  
**RO** Modificarea pentru apă caldă  
**RU** Перенастройка на подачу горячей вод  
**SE** Omställning till varmt vatten  
**SK** Prestavenie na teplú vodu

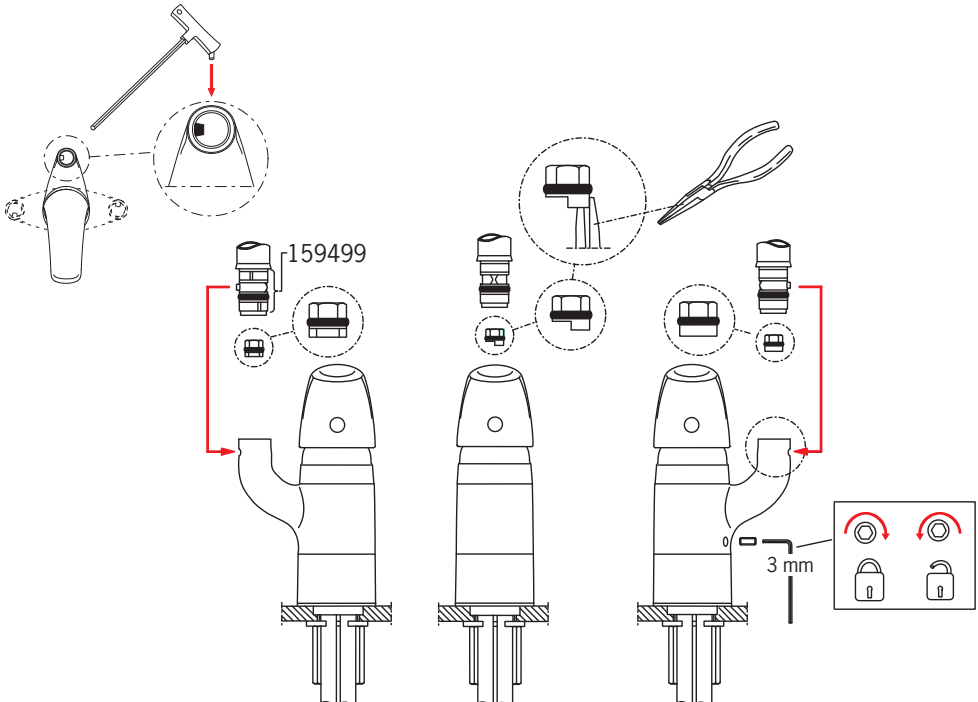
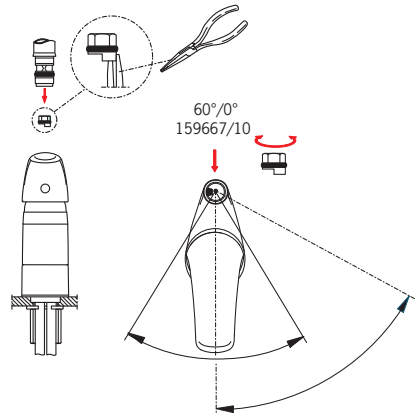
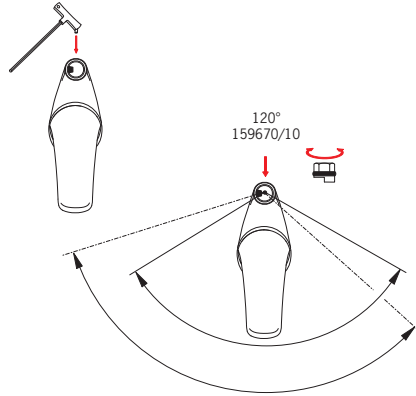


# Spout installation

**CZ** Instalace výtokového ramene  
**DE** Montage Auslauf  
**DK** Montering af tud  
**EE** Jooksutoru paigaldamine  
**ES** Instalación del caño  
**FI** Juoksuputken asennus

**FR** Montage du bec  
**IT** Montaggio bocca  
**LT** Snapelio instaliavimas  
**LV** Iztekas uzstādišana  
**NL** Installatie uitloop  
**NO** Montering av tut

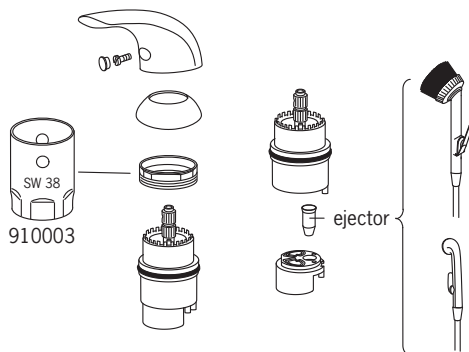
**PL** Instalacja wylewki  
**RO** Instalarea pipei  
**RU** Установка излива  
**SE** Montering av utloppsip  
**SK** Inštalácia výtokového ramena



## To change the cartridge

**CZ** Výměna kartuše  
**DE** Ein- und Ausbau der Kartusche  
**DK** Udsiftning af reguleringskassette (unit)  
**EE** Seadeosa vahetus  
**ES** Montaje del cartucho  
**FI** Säätöosan vaihto  
**FR** Montage et démontage de la cartouche  
**IT** Montaggio della cartuccia  
**LT** Valdanciosios kasetės pakeitimas

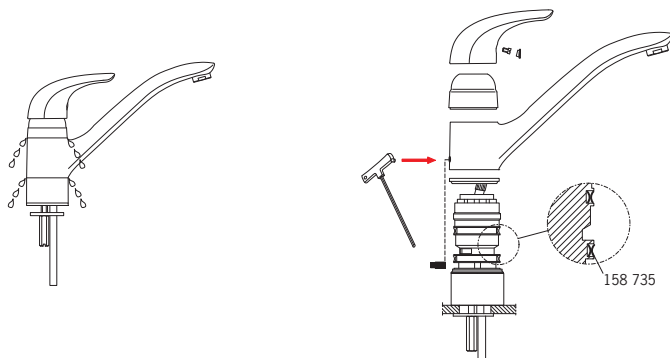
**LV** Regulēšanas mehānisma kasetes maiņa  
**NL** Vervangen van het keramische binnenwerk  
**NO** Skifting av kassett  
**PL** Wymiana modułu sterującego  
**RO** Înlocuirea cartușului  
**RU** Замена регулировочного блока  
**SE** Byte av kassett  
**SK** Výměna kartuše



## Changing the spout's seals

**CZ** Výměna těsnění  
**DE** Austausch der Auslaufdichtungen  
**DK** Udsiftning af svingtudens pakninger  
**EE** Jooksutoru tihendite vahetamine  
**ES** Cambio de las juntas del caño  
**FI** Juoksuputken tiivisteiden vaihto  
**FR** Remplacement des joints de bec  
**IT** Sostituzione delle guarnizioni delle bocca  
**LT** Snapelio tarpinių pakeitimas

**LV** Iztekas un blīvslēgu maiņa  
**NL** Lippendichtingen vervangen  
**NO** Bytting av svingtudens pakninger  
**PL** Wymiana uszczeliek wylewki  
**RO** Înlocuirea garniturilor pipei  
**RU** Замена прокладок сливной трубы или замена сливной трубы  
**SE** Utbyte av manschettpackningar  
**SK** Výměna tesnení

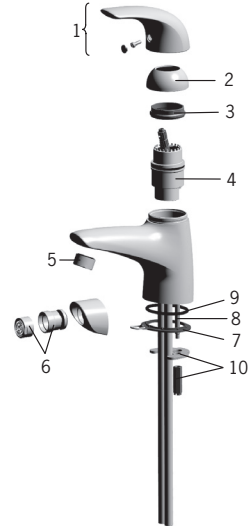


## Spare parts

<b>CZ</b> Náhradní díly	<b>FI</b> Varaosat	<b>LV</b> Rezerves daļas	<b>RO</b> Piese de schimb
<b>DE</b> Ersatzteile	<b>FR</b> Pièces détachées	<b>NL</b> Reserve-onderdelen	<b>RU</b> Запасные части
<b>DK</b> Reservedele	<b>IT</b> Pezzi di ricambio	<b>NO</b> Reservedeler	<b>SE</b> Reservdelar
<b>EE</b> Varuosad	<b>LT</b> Atsarginės dalys	<b>PL</b> Części zamienne	<b>SK</b> Náhradné diely
<b>ES</b> Piezas de recambio			

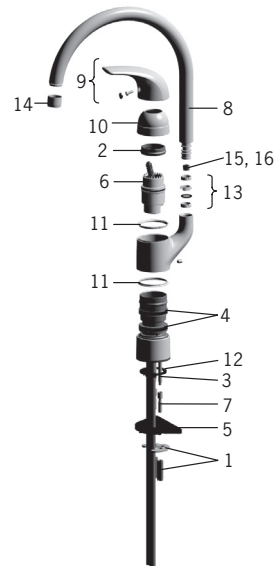
### 1704, 1704F, 1708, 1708F, 1710, 1710F, 1712, 1712F, 1718, 1718F

- 1 159012V
- 2 159013V
- 3 158726
- 4 158890
- 5 232211
- 6 232511
- 7 159017V
- 8 158727/10
- 9 158448/10
- 10 158697



### 1738, 1738F, 1739, 1739F

- 1 158697
- 2 158726
- 3 158747/10
- 4 158735
- 5 158825
- 6 158890
- 7 158893
- 8 159010V
- 9 159012V
- 10 159014V
- 11 159423/10
- 12 159434
- 13 159499
- 14 232201
- 15 159670/10 (120°)
- 16 159667/10 (60°/0°)



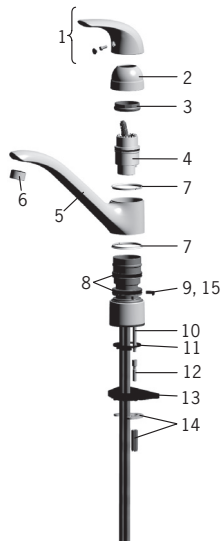


## Spare parts

<b>CZ</b> Náhradní díly	<b>FI</b> Varaosat	<b>LV</b> Rezerves daļas	<b>RO</b> Piese de schimb
<b>DE</b> Ersatzteile	<b>FR</b> Pièces détachées	<b>NL</b> Reserve-onderdelen	<b>RU</b> Запасные части
<b>DK</b> Reservedele	<b>IT</b> Pezzi di ricambio	<b>NO</b> Reservedeler	<b>SE</b> Reservdelar
<b>EE</b> Varuosad	<b>LT</b> Atsarginės dalys	<b>PL</b> Części zamienne	<b>SK</b> Náhradné diely
<b>ES</b> Piezas de recambio			

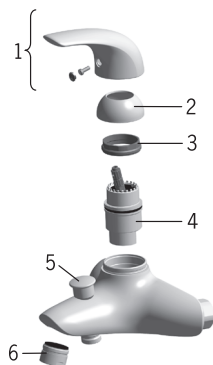
### 1720, 1720F, 1725, 1725F

- 1 159012V
- 2 159014V
- 3 158726
- 4 158890
- 5 159005V
- 6 232210
- 7 159423/10
- 8 158735
- 9 159426/10 (100°)
- 10 158747/10
- 11 159434
- 12 158893
- 13 158825
- 14 158697
- 15 159430/10 (40° - 80°)



### 1740, 1740U, 1740Y, 1743, 1746

- 1 159012V
- 2 159013V
- 3 158726
- 4 158890
- 5 209695
- 6 158337



## Spare parts

**CZ** Náhradní díly

**DE** Ersatzteile

**DK** Reservedele

**EE** Varuosad

**ES** Piezas de recambio

**FI** Varaosat

**FR** Pièces détachées

**IT** Pezzi di ricambio

**LT** Atsarginės dalys

**LV** Rezerves daļas

**NL** Reserve-onderdelen

**NO** Reservedeler

**PL** Części zamienne

**RO** Piese de schimb

**RU** Запасные части

**SE** Reservdelar

**SK** Náhradné diely

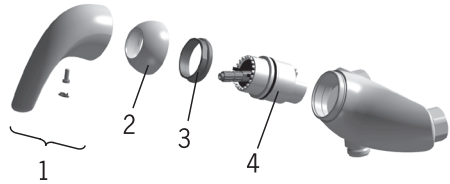
### 1760, 1760U, 1760Y, 1763, 1766

1 159012V

2 159013V

3 158726

4 158890



# 1714F

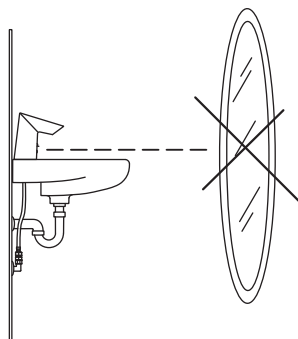
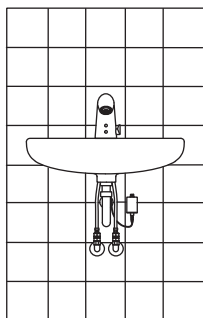
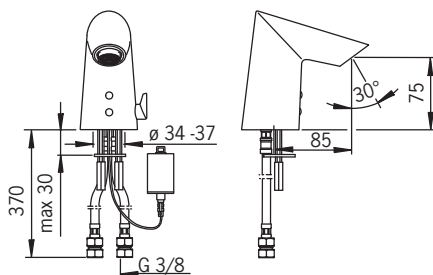
EN 15091

I (ISO 3822) Oras lab.

100 - 1000 kPa

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

max. +70°C



CE (EMC 2004/108/EY)



# Technical data

<b>CZ</b> Technická data	<b>FR</b> Données techniques	<b>LV</b> Tehniskie dati	<b>PL</b> Dane techniczne	<b>SE</b> Teknisk information
<b>DE</b> Technische Daten	<b>IT</b> Dati tecnici	<b>NL</b> Technische gegevens	<b>RO</b> Date tehnice	<b>SK</b> Technické údaje
<b>DK</b> Tekniske data	<b>LT</b> Techniniai duomenys	<b>NO</b> Teknisk informasjon	<b>RU</b> Технические данные	

## Protection class

<b>GB</b> Triida bezpečnosti	<b>SE</b> Kapslingsklass
<b>CZ</b> Třída bezpečnosti	<b>SK</b> Trieda bezpečnosti
<b>DE</b> Sicherheitsklasse	
<b>DK</b> Beskyttelsesklasse	
<b>EE</b> Kaitseklass	
<b>ES</b> Grado de protección	
<b>FI</b> Suojaluokka	
<b>FR</b> Norme de sécurité	
<b>IT</b> Protezione classe	
<b>LV</b> Saugumo klase	
<b>LT</b> Saugumo klasė	
<b>LV</b> Aizsardzības klase	
<b>NL</b> Veiligheidsklasse	
<b>NO</b> Tetthetsklasse	
<b>PL</b> Klasa bezpieczeństwa	
<b>RO</b> Clasa de protecție	
<b>RU</b> Степень защиты	

## Battery

<b>Monocellének</b>	<b>Batteri</b>
<b>Batterie</b>	<b>Batterier</b>
<b>Batterij</b>	<b>Baterija</b>
<b>Batería</b>	<b>Батарей</b>
<b>Paristo</b>	<b>Batteri</b>
<b>Piles</b>	<b>Baterija</b>
<b>Batterie</b>	<b>Baterija</b>
<b>Baterija</b>	<b>Baterij</b>
<b>Baterij</b>	<b>Batteri</b>
<b>Baterie</b>	<b>Baterie</b>
<b>Батарея</b>	<b>Baterie</b>
<b>Batteri</b>	<b>Батарея</b>
<b>Monocellánok</b>	

## Recognition range

<b>Rozlišovací rozsah</b>	<b>Longueur du faisceau</b>
<b>Sensorreichweite</b>	<b>Raggio d'azione del sensore</b>
<b>Sensor område</b>	<b>Atpažinimo atstumas</b>
<b>Toimimiskaugus</b>	<b>Atpažināšanas diapazons</b>
<b>Alcance del sensor</b>	<b>Sensorbereich</b>
<b>Tunnistusalue</b>	<b>Følsomhetsområde</b>
<b>Longueur du faisceau</b>	<b>Zasięg działania</b>
<b>Raggio d'azione del sensore</b>	<b>Raza de sesizare</b>
<b>Atpažinimo atstumas</b>	<b>Расстояние опознавания</b>
<b>Atpažināšanas diapazons</b>	<b>Känslighetsområde</b>
<b>Sensorbereich</b>	<b>Rozlišovací vzdialenosť</b>
<b>Følsomhetsområde</b>	
<b>Zasięg działania</b>	
<b>Raza de sesizare</b>	
<b>Расстояние опознавания</b>	

## Max. flow period

<b>Max. doba prútoku</b>	<b>Max. floðesstíð</b>
<b>Max. Fließdauer</b>	<b>Max. doba prietoku</b>
<b>Max. løbetid</b>	
<b>Maksimaalne vee vooluaja pikkus</b>	
<b>Periodo máximo de flujo</b>	
<b>Max. virtusaika</b>	
<b>Durée maximum d'écoulement</b>	
<b>Scorrimento mass.</b>	
<b>Maksimāli srovės tekėjimo trukmė</b>	
<b>Maksimālais plūsmas periods</b>	
<b>Max. loopitid</b>	
<b>Funksjonstid</b>	
<b>Max czas przepływu</b>	
<b>Perioadă max. de curgere</b>	
<b>Макс. время подачи воды</b>	

## Intelligent afterflow period

<b>Cas dodatečného prútoku</b>	<b>Intelligent etterflødestid</b>
<b>Intelligente Nachlaufzeit</b>	<b>Intelligent efterflødestid</b>
<b>Intelligent efterløbetid</b>	<b>Intelligent efterflødestid</b>
<b>Optimaalne järelvooluaja pikkus</b>	<b>Intelligent afterflow period</b>
<b>Tiempo caudal posterior</b>	<b>Intelligent afterflow period</b>
<b>Alykkás jälkivirtaama- aika</b>	<b>Intelligent afterflow period</b>
<b>Temporisation de débit intelligente</b>	<b>Intelligent afterflow period</b>
<b>Tempo di scorrimento a posteriori</b>	<b>Intelligent afterflow period</b>
<b>Tekėjimo trukmė po prausimosi</b>	<b>Intelligent afterflow period</b>
<b>Skalošanas periods</b>	<b>Intelligent afterflow period</b>
<b>Intelligente naloopitid</b>	<b>Intelligent afterflow period</b>
<b>Intelligent etterrenningstid</b>	<b>Intelligent afterflow period</b>
<b>Intelligentne opóźnienie zamknięcia</b>	<b>Intelligent afterflow period</b>
<b>Perioadă de curgere remanentă inteligentă</b>	<b>Intelligent afterflow period</b>
<b>Продолжительность окончат. смыва (автоматическая настройка)</b>	<b>Intelligent afterflow period</b>
<b>Intelligent efterflødestid</b>	<b>Intelligent afterflow period</b>
<b>Intelligentná doba po prietoku</b>	<b>Intelligent afterflow period</b>

**IP 67**

**Lithium 2CR5 6V**

**optimally preset**

**2 min**

**2 s ± 1 s**

## Installation

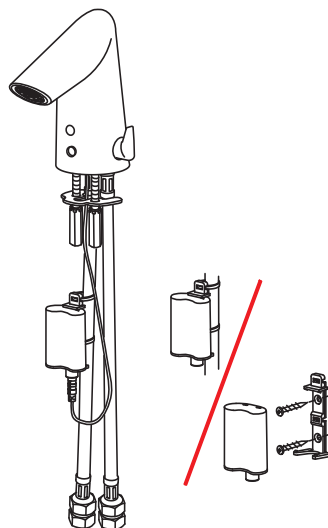
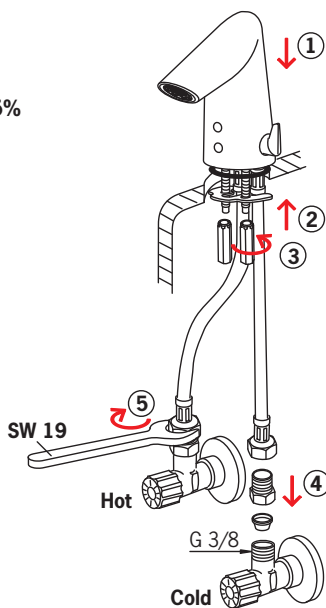
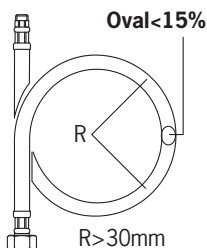
**CZ** Montáž  
**DE** Montage  
**DK** Installation  
**EE** Paigaldus  
**ES** Montaje

**FI** Asennus  
**FR** Installation  
**IT** Montaggio  
**LT** Montavimas

**LV** Montāža  
**NL** Installatie  
**NO** Montering  
**PL** Instalacja

**RO** Instalare  
**RU** Установка  
**SE** Installation  
**SK** Inštalácia

### F-Modell



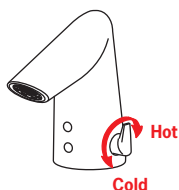
## Operation

**CZ** Funkce  
**DE** Funktion  
**DK** Betjening  
**EE** Toimimise  
**ES** Servicio

**FI** Toiminta  
**FR** Utilisation  
**IT** Funzionamento  
**LT** Veikimo principas

**LV** Darbības princips  
**NL** Bediening  
**NO** Funksjon  
**PL** Działanie

**RO** Funcționare  
**RU** Принцип действия  
**SE** Funktion  
**SK** Prevádzka

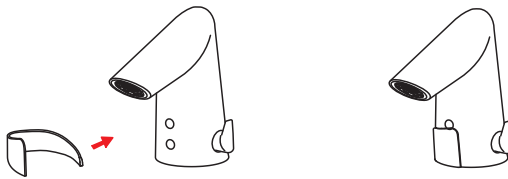


### Automatic



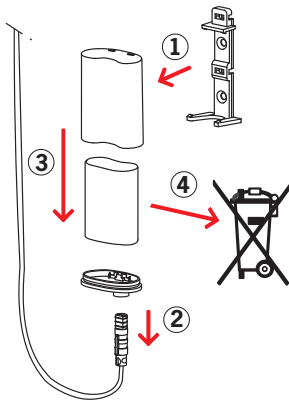
## Cleaning cover

<b>CZ</b> Čistící kryt	<b>LV</b> Tīrīšanas vāks
<b>DE</b> Reinigungsabdeckung	<b>NL</b> Afdekkapje om het schoonmaken te vergemakkelijken
<b>DK</b> Rengøringskappe	<b>NO</b> Rengjøringsdeksel
<b>EE</b> Puhastuskaitse	<b>PL</b> Osłona sensora
<b>ES</b> Copertura per le pulizie	<b>RO</b> Mască de curățire
<b>FI</b> Siivoussuoja	<b>RU</b> Защитное кольцо
<b>FR</b> Cache sensor	<b>SE</b> Rengöring av tvättställ
<b>IT</b> Cubierta de limpeza	<b>SK</b> Čistenie krytu
<b>LT</b> Valymo dangtelis	



## Changing the battery

<b>CZ</b> Výměna baterie	<b>LV</b> Baterijas maiņa
<b>DE</b> Wechsel der Batterie	<b>NL</b> Batterij vervangen
<b>DK</b> Udskiftning af batteri	<b>NO</b> Bytting av batteri
<b>EE</b> Patarei vahetamine	<b>PL</b> Wymiana baterii zasilającej
<b>ES</b> Cambiar la batería	<b>RO</b> Înlocuirea bateriei electrice
<b>FI</b> Pariston vaihto	<b>RU</b> Замена батарейки
<b>FR</b> Changement de la pile	<b>SE</b> Byte av batteri
<b>IT</b> Sostituzione della batteria	<b>SK</b> Výměna batérie
<b>LT</b> Baterijos pakeitimas	



## Temperature limiting

**CZ** Omezovač teploty

**DE** Temperaturbegrenzung

**DK** Temperatur begrænsning

**EE** Temperatuuri piiramine

**ES** Limitación de la temperatura

**FI** Lämpötilan rajoitus

**FR** Limiteur de température

**IT** Limitatore della temperatura

**LT** Temperatūros apribojimas

**LV** Temperatūras ierobežošana

**NL** Temperatuurbegrenzing

**NO** Begrensning av temperaturen

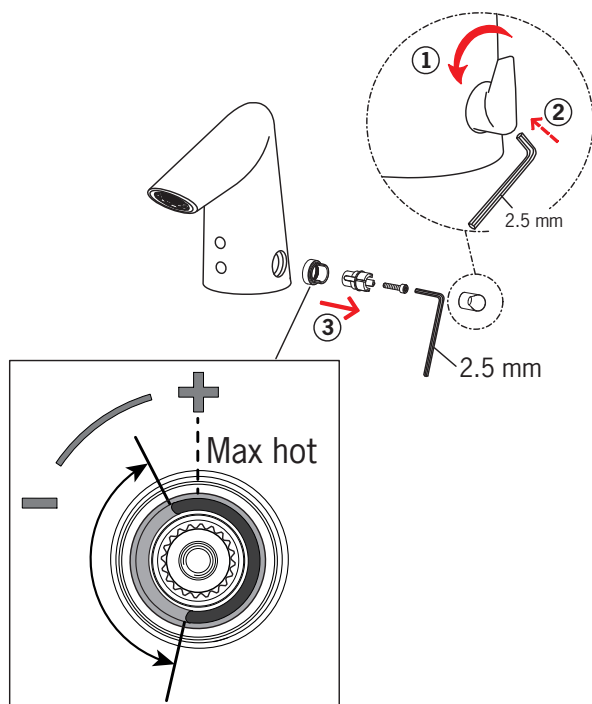
**PL** Ogranicznik temperatury

**RO** Limitarea temperaturii

**RU** Ограничение температуры

**SE** Temperatur begränsning

**SK** Obmedzovač teploty



## Cleaning/changing the litter filters

**CZ** Čištění/Výměna filtrů

**DE** Reinigung/Wechsel der Filter

**DK** Rensning/udskiftning af filtre

**EE** Prügipüüduuri puhastamine/vahetamine

**ES** Limpieza/cambio de los filtros

**FI** Roskasiivilöiden puhdistaminen/vaihtaminen

**FR** Nettoyage/changement des filtres

**IT** Pulizia/sostituzione dei filtri

**LT** Filtrų valymas ir pakeitimas

**LV** Dubļu filtru tīrīšana/maiņa

**NL** Reinigen/veranderen van de filters

**NO** Rensing/bytting av filter

**PL** Czyszczenie/wymiana filtra

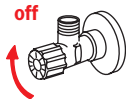
**RO** Curățirea/inlocuirea filtrelor

**RU** Очистка и замена уплотнительных фильтров

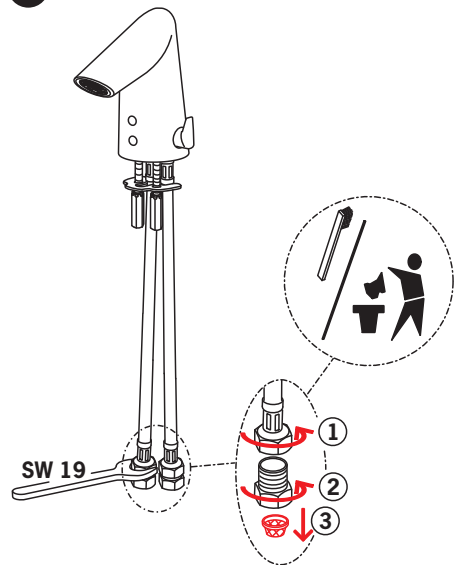
**SE** Rengöring/byte av smutsfilter

**SK** Čistenie/výměna odpadových filtrov

1



2



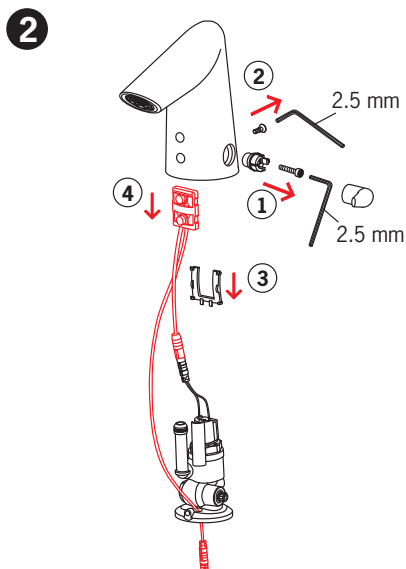
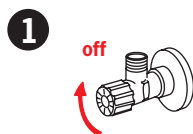
SW 19



## Changing the sensor

**CZ** Výměna elektroniky/senzoru  
**DE** Austausch des Sensors  
**DK** Udsiftning af sensoren  
**EE** Sensori vahetamine  
**ES** Cambiar el sensor  
**FI** Sensorin vaihto  
**FR** Changement de la cellule  
**IT** Sostituzione del sensore  
**LT** Jutiklio pakeitimas

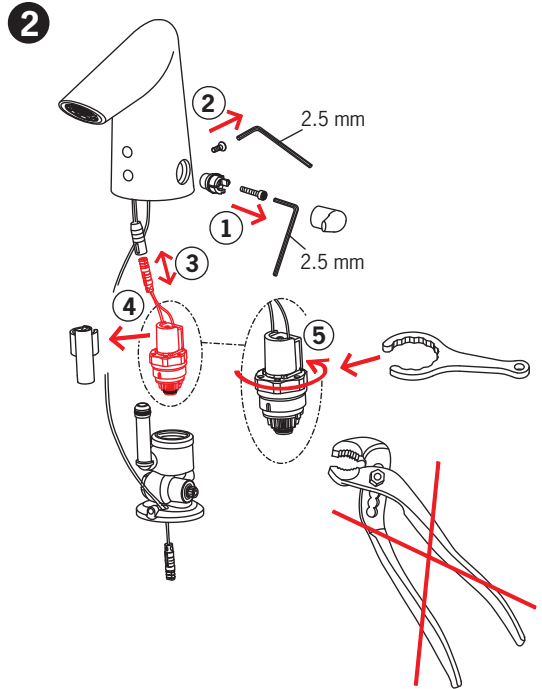
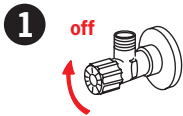
**LV** Sensora maiņa  
**NL** Vervangen van de sensor  
**NO** Bytting av sensor  
**PL** Wymiana sensora  
**RO** Înlocuirea senzorului  
**RU** Замена датчика, модели  
**SE** Byte av sensor  
**SK** Výmena senzora



## Servicing the solenoid valve

**CZ** Servis solenoidového ventilu  
**DE** Wartung der Magnetventil  
**DK** Rensning/udskiftning af magnetventilens  
**EE** Magnetventiili vahetamine  
**ES** Cambiar la válvula magnética  
**FI** Magneettiventtiilin vaihto  
**FR** Changement de l'électrovanne  
**IT** Sostituzione della valvola magnetica  
**LT** Elektromagnetinio vožtuvo pakeitimas

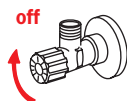
**LV** Elektromagnētiskā vārsta maiņa  
**NL** Vervanging van de magneetventiel  
**NO** Bytting av magnetventil  
**PL** Wymiana zaworu solenoidowego  
**RO** Înţreţinerea valvei solenoidale  
**RU** Замена электромагнитного клапана  
**SE** Byte av magnetventil  
**SK** Výmena elektromagnetického ventilu



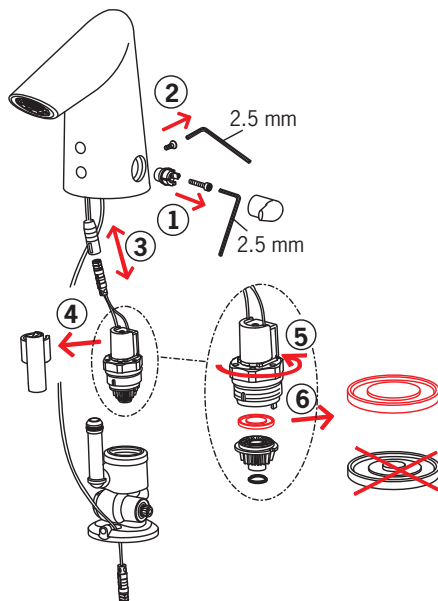
## Servicing the solenoid valve membrane

<b>CZ</b> Servis membrány solenoidového ventilu	<b>LV</b> Elektromagnētiskā vārsta membrānas serviss
<b>DE</b> Wartung der Magnetventilmembrane	<b>NL</b> Onderhoud van het membraan
<b>DK</b> Rensning/udskiftning af magnetventilens membran	<b>NO</b> Rengjøring/bytting av magnetventilens membran
<b>EE</b> Magnetventiili membraani hooldus	<b>PL</b> Wymiana membrany zaworu solenoidowego
<b>ES</b> Cambiar la membrana de la válvula magnética	<b>RO</b> Întreținerea membranei valvei solenoidale
<b>FI</b> Magneettiventtiilin kalvon huolto	<b>RU</b> Чистка мембраны электромагнитного клапана, модели
<b>FR</b> Entretien de la membrane de la vanne	<b>SE</b> Service av magnetventilens membran
<b>IT</b> Sostituzione della valvola magnetica - membrana	<b>SK</b> Servis membrány elektromagnetického ventilu
<b>LT</b> Techninė elektromagnetinio vožtuvo membranos priežiūra	

1



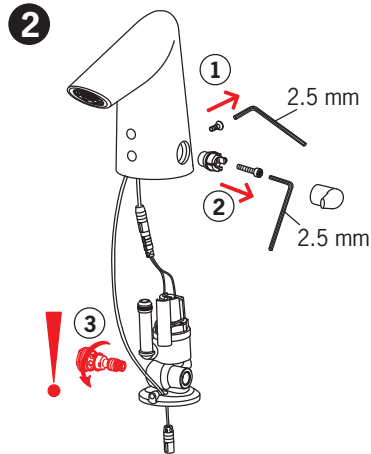
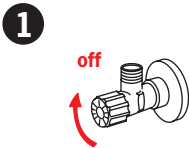
2



## Changing the temperature regulator

**CZ** Výměna regulátor teploty  
**DE** Austausch des Temperatureinstellgriffes  
**DK** Udskiftning af temperatur reguleringsdel  
**EE** Temperatuuriseadja vahetamine  
**ES** Sustitución del juego de regulación de temperatura  
**FI** Lämmönsäätimen vaihto  
**FR** Remplacement de la tête de réglage de la température  
**IT** Sostituzione del regolatore di temperatura

**LT** Temperatūros regulatoriaus keitimas  
**LV** Temperatūras regulatora maiņa  
**NL** Vervangen van de temperatuur regeling  
**NO** Bytting av temperaturreguleringsdel  
**PL** Wymiana regulatora temperatury  
**RO** Înlocuirea regulatorului de temperatură  
**RU** Замена регулятора температуры  
**SE** Byte av blandningsventil  
**SK** Výměna regulátora teploty

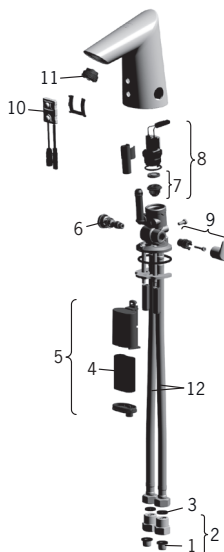


## Spare parts

<b>CZ</b> Náhradní díly	<b>FI</b> Varaosat	<b>LV</b> Rezerves daļas	<b>RO</b> Piese de schimb
<b>DE</b> Ersatzteile	<b>FR</b> Pièces détachées	<b>NL</b> Reserve-onderdelen	<b>RU</b> Запасные части
<b>DK</b> Reservedele	<b>IT</b> Pezzi di ricambio	<b>NO</b> Reservedeler	<b>SE</b> Reservdelar
<b>EE</b> Varuosad	<b>LT</b> Atsarginės dalys	<b>PL</b> Części zamienne	<b>SK</b> Náhradné diely
<b>ES</b> Piezas de recambio			

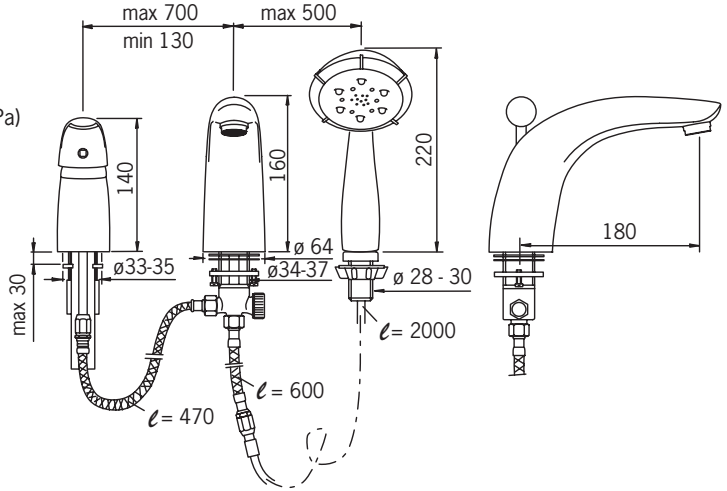
### 1714F

- 1 199257/2
- 2 198473/2
- 3 600705/10
- 4 198330
- 5 199417V
- 6 199201V
- 7 199205V
- 8 199206V
- 9 601020V
- 10 600659V
- 11 601025V
- 12 600306/2



## 1750

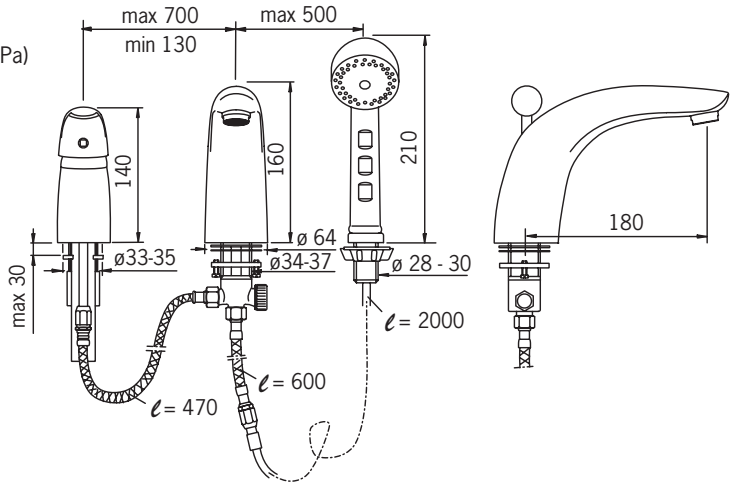
EN 817  
 I (ISO 3822)  
 50 - 1000 kPa  
 0.23 l/s / 0.31 l/s (300 kPa)  
 270 kPa (0.3 l/s)  
 max. +80°C



STF VTT-RTH-00099-11  
 KIWA K6345/07  
 Sintef Nr. 0126

## 1750-60

EN 817  
 I (ISO 3822)  
 50 - 1000 kPa  
 0.23 l/s / 0.31 l/s (300 kPa)  
 225 kPa (0.2 l/s)  
 270 kPa (0.3 l/s)  
 max. +80°C



STF VTT-RTH-00099-11  
 KIWA K6345/07  
 Sintef Nr. 0126

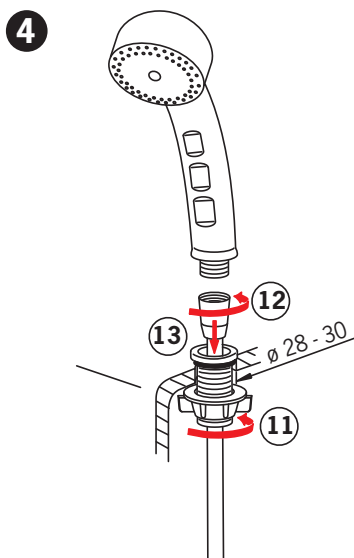
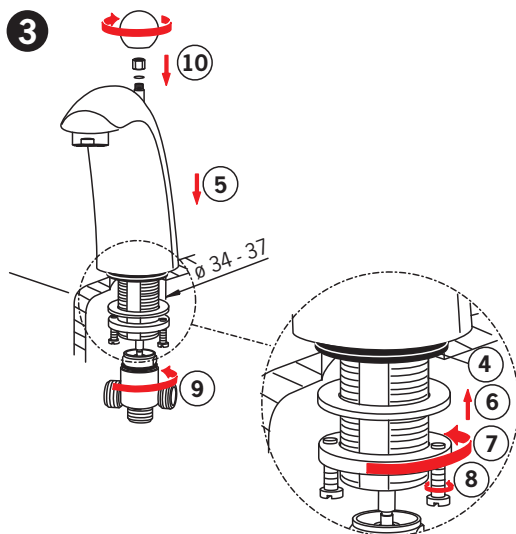
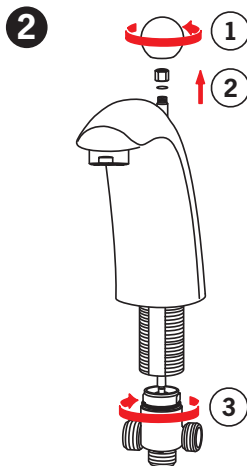
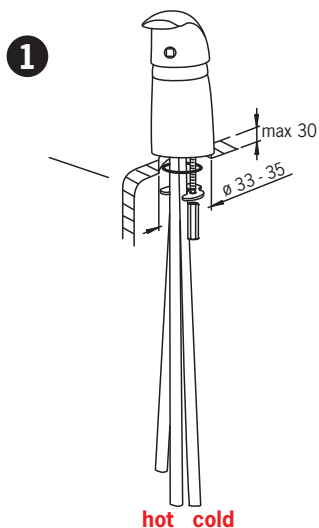
# Installation

**CZ** Montáž  
**DE** Montage  
**DK** Installation  
**EE** Paigaldus  
**ES** Montaje

**FI** Asennus  
**FR** Installation  
**IT** Montaggio  
**LT** Montavimas

**LV** Montāža  
**NL** Installatie  
**NO** Montering  
**PL** Instalacja

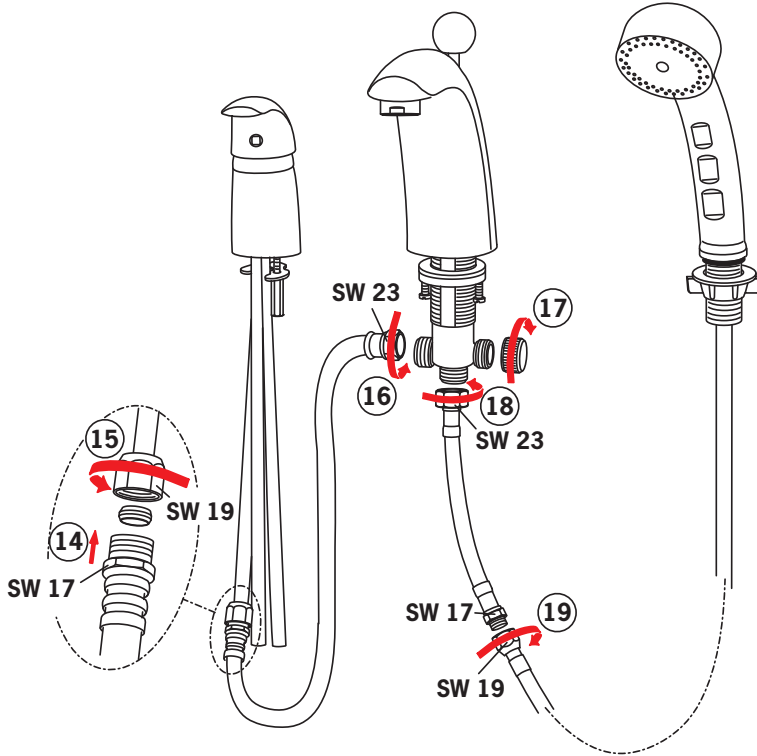
**RO** Instalare  
**RU** Установка  
**SE** Installation  
**SK** Inštalácia



# Installation

<b>CZ</b> Montáž	<b>FI</b> Asennus	<b>LV</b> Montāža	<b>RO</b> Instalare
<b>DE</b> Montage	<b>FR</b> Installation	<b>NL</b> Installatie	<b>RU</b> Установка
<b>DK</b> Installation	<b>IT</b> Montaggio	<b>NO</b> Montering	<b>SE</b> Installation
<b>EE</b> Paigaldus	<b>LT</b> Montavimas	<b>PL</b> Instalacja	<b>SK</b> Inštalácia
<b>ES</b> Montaje			

**5**





## Operation

**CZ** Funkce

**DE** Funktion

**DK** Betjening

**EE** Toimimine

**ES** Servicio

**FI** Toiminta

**FR** Utilisation

**IT** Funzionamento

**LT** Veikimo principas

**LV** Darbības princips

**NL** Bediening

**NO** Funksjon

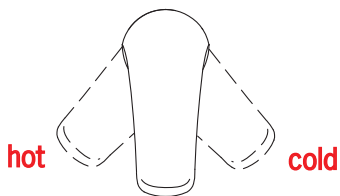
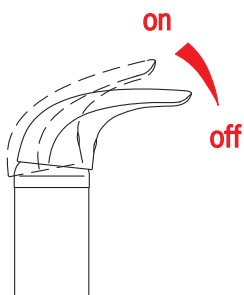
**PL** Działanie

**RO** Funcționare

**RU** Принцип действия

**SE** Funktion

**SK** Prevádzka



## Spare parts

**CZ** Náhradní díly  
**DE** Ersatzteile  
**DK** Reservedele  
**EE** Varuosad  
**ES** Piezas de recambio

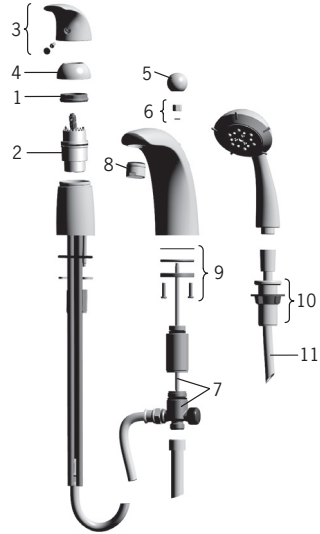
**FI** Varaosat  
**FR** Pièces détachées  
**IT** Pezzi di ricambio  
**LT** Atsarginės dalys

**LV** Rezerves daļas  
**NL** Reserve-onderdelen  
**NO** Reservedeler  
**PL** Części zamienne

**RO** Piese de schimb  
**RU** Запасные части  
**SE** Reservdelar  
**SK** Náhradné diely

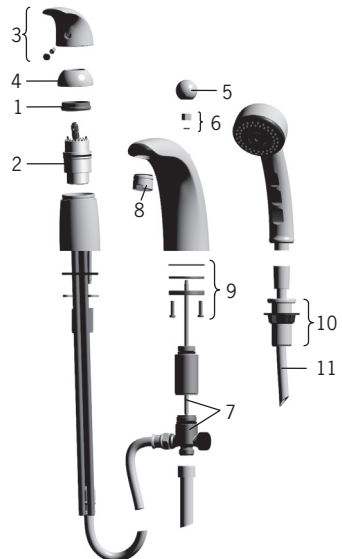
### 1750

- 1 158726
- 2 158890
- 3 159012V
- 4 159013V
- 5 159018V
- 6 209711V
- 7 209785V
- 8 232213
- 9 859114V
- 10 158592V
- 11 241114



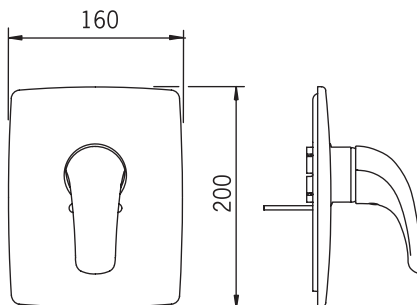
### 1750-60

- 1 158726
- 2 158890
- 3 159012V
- 4 159013V
- 5 159018V
- 6 209711V
- 7 209785V
- 8 232213
- 9 859114V
- 10 158592V
- 11 241114



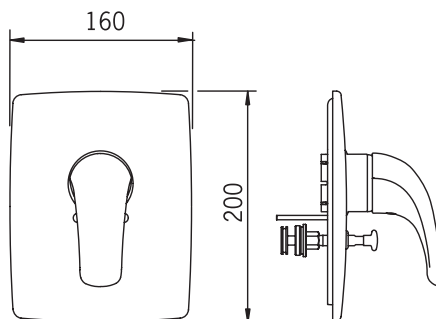
## 1787

EN 817  
 I (ISO 3822) Oras lab.  
 50 - 1000 kPa  
 0.26 l/s (300 kPa)  
 180 kPa (0.2 l/s)  
 max. +80°C



## 1788

EN 817  
 I (ISO 3822) Oras lab.  
 50 - 1000 kPa  
 0.3 l/s (300 kPa)  
 300 kPa (0.3 l/s)  
 max. +80°C



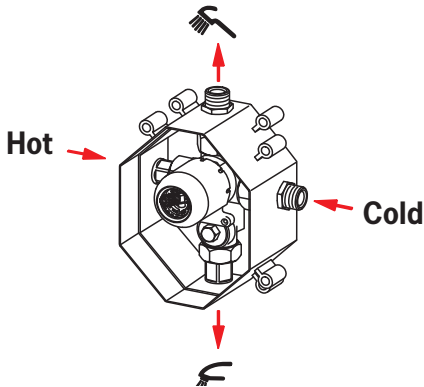
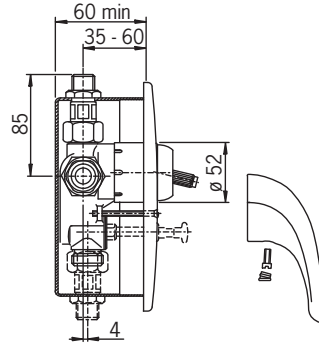
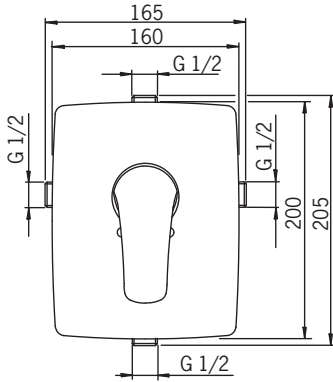
# Installation

**CZ** Montáž  
**DE** Montage  
**DK** Installation  
**EE** Paigaldus  
**ES** Montaje

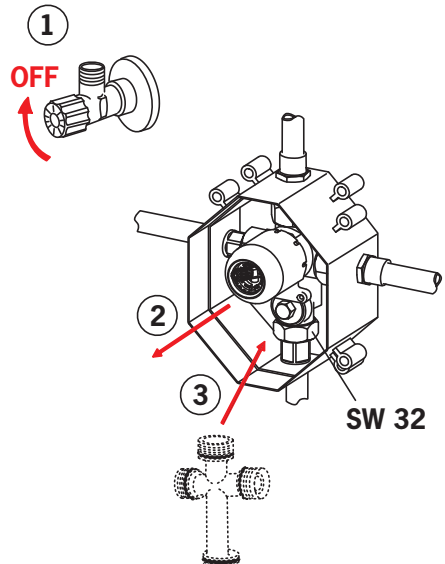
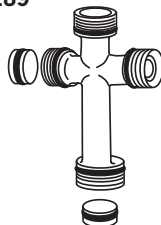
**FI** Asennus  
**FR** Installation  
**IT** Montaggio  
**LT** Montavimas

**LV** Montāža  
**NL** Installatie  
**NO** Montering  
**PL** Instalacja

**RO** Instalare  
**RU** Установка  
**SE** Installation  
**SK** Inštalácia



1289



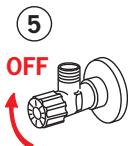
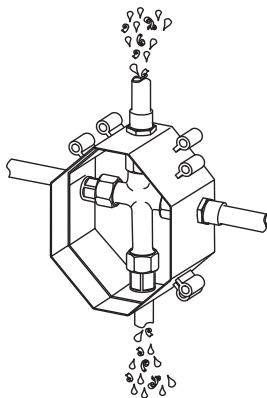
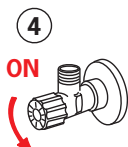
## Rinsing

**CZ** Vyláchnutí  
**DE** Spülen  
**DK** Gennemskyldning  
**EE** Loputama  
**ES** Aclarar

**FI** Huuhtelu  
**FR** Rinçage  
**IT** Spurgo  
**LT** Praplovimas

**LV** Skalošana  
**NL** Spoelen  
**NO** Rengjøring  
**PL** Płukania

**RO** Spălare  
**RU** Промывка  
**SE** Renspolning  
**SK** Vyláchnutie



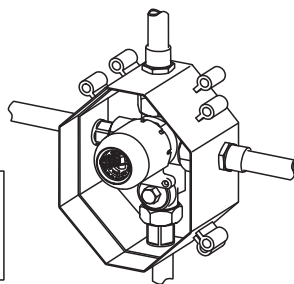
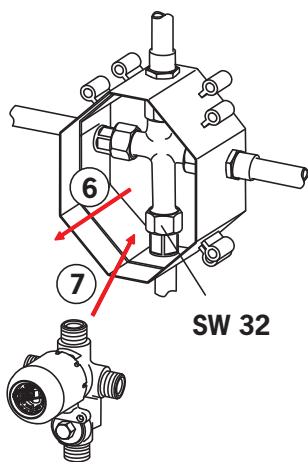
## Installation

**CZ** Montáž  
**DE** Montage  
**DK** Installation  
**EE** Paigaldus  
**ES** Montaje

**FI** Asennus  
**FR** Installation  
**IT** Montaggio  
**LT** Montavimas

**LV** Montāža  
**NL** Installatie  
**NO** Montering  
**PL** Instalacja

**RO** Instalare  
**RU** Установка  
**SE** Installation  
**SK** Inštalácia



# Installation

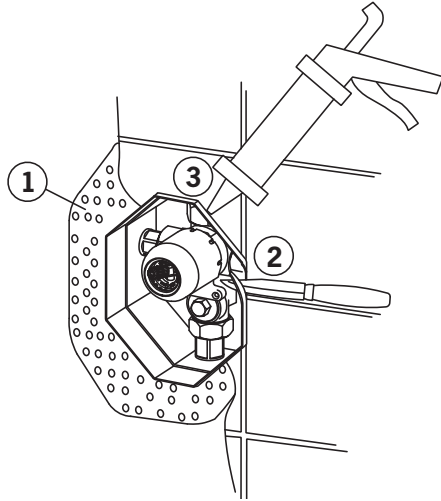
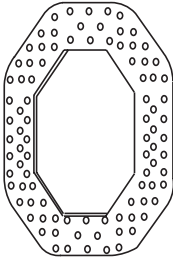
**CZ** Montáž  
**DE** Montage  
**DK** Installation  
**EE** Paigaldus  
**ES** Montaje

**FI** Asennus  
**FR** Installation  
**IT** Montaggio  
**LT** Montavimas

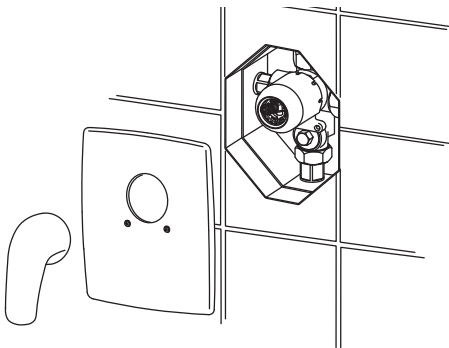
**LV** Montāža  
**NL** Installatie  
**NO** Montering  
**PL** Instalacja

**RO** Instalare  
**RU** Установка  
**SE** Installation  
**SK** Inštalácia

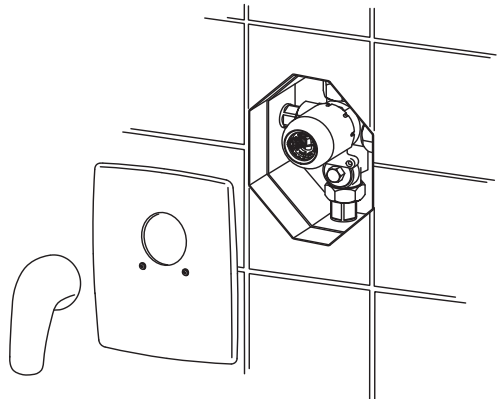
**198539**



**1787**



**1788**



## Spare parts

**CZ** Náhradní díly  
**DE** Ersatzteile  
**DK** Reservedele  
**EE** Varuosad  
**ES** Piezas de recambio

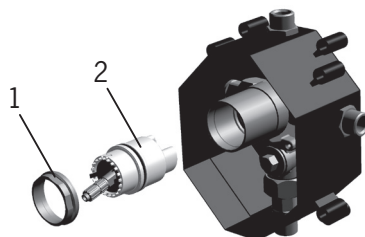
**FI** Varaosat  
**FR** Pièces détachées  
**IT** Pezzi di ricambio  
**LT** Atsarginės dalys

**LV** Rezerves daļas  
**NL** Reserve-onderdelen  
**NO** Reservdelar  
**PL** Części zamienne

**RO** Piese de schimb  
**RU** Запасные части  
**SE** Reservdelar  
**SK** Náhradné diely

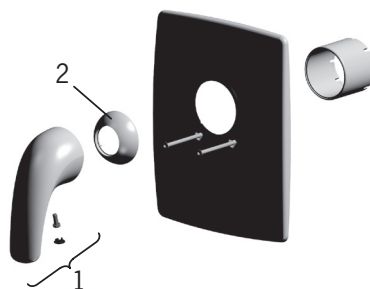
### 1286

- 1 158726
- 2 158890



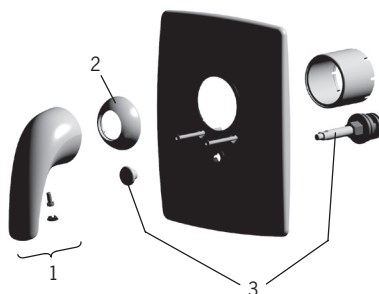
### 1787

- 1 159012V
- 2 158176



### 1788

- 1 159012V
- 2 158176
- 3 209970













Oras is a significant developer, manufacturer and marketer of kitchen and bathroom faucets. Ever since the company's founding in 1945 in Rauma, Finland, Oras has been dedicated to bring products of high quality and design with user-friendly technological solutions to the markets. Each technological improvement is designed to contribute to water and energy savings. As early as in the 1990s, Oras presented the touchless, electronic faucets to the European HVAC markets. Oras' vision is to become the true owner of the electronic faucet markets in Europe.

Oras is entirely owned by a family company Oras Invest. All Oras faucets are produced in Europe, in the company's three factories located in Rauma, Finland, in Olesno, Poland and in Leksvik, Norway. Likewise the raw material and the components used in production are sourced from European suppliers. For more information, visit [www.oras.com](http://www.oras.com)

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The TÜV CERT Certification Body of TÜV NORD Zertifizierungs- und Umweltgutachter Gesellschaft mbH certifies that the Quality Management System of Oras Olesno Sp. z o.o. in Olesno Poland, conforms to the ISO 9001, the Environmental Management System to the ISO 14001 standard and the Occupational Health and Safety System to the OHSAS 18001 standard. The certificates are valid for manufacture, storage, marketing, sales and after sales services of faucets, valves and accessories.



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