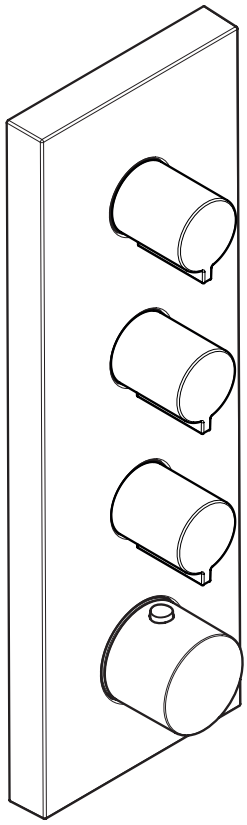
AXOR

DE / Gebrauchsanleitung / Montageanleitung 02
FR / Mode d'emploi / Instructions de montage 03
EN / Instructions for use / assembly instructions 04
IT / Istruzioni per l'uso / Istruzioni per Installazione 05
ES / Modo de empleo / Instrucciones de montaje 06
NL / Gebruiksaanwijzing / Handleiding 07
DK / Brugsanvisning / Monteringsvejledning 08
PT / Instruções para uso / Manual de Instalación 09
PL / Instrukcja obsługi / Instrukcja montażu 10
CS / Návod k použití / Montážní návod 11
SK / Návod na použitie / Montážny návod 12
ZH / 用户手册 / 组装说明 13
RU / Руководство пользователя / Инструкция по монтажу 14
HU / Használati útmutató / Szerelési útmutató 15
FI / Käyttöohje / Asennusohje 16
SV / Bruksanvisning / Monteringsanvisning 17
LT / Vartotojo instrukcija / Montavimo instrukcijos 18
HR / Upute za uporabu / Uputstva za instalaciju 19
TR / Kullanım kılavuzu / Montaj kılavuzu 20
RO / Manual de utilizare / Instrucțiuni de montare 21
EL / Οδηγίες χρήσης / Οδηγία συναρμολόγησης 22
SL / Navodilo za uporabo / Navodila za montažo 23
ET / Kasutusjuhend / Paigaldusjuhend 24
LV / Lietošanas pamācība / Montāžas instrukcija 25
SR / Uputstvo za upotrebu / Uputstvo za montažu 26
NO / Bruksanvisning / Montasjeveiledning 27
BG / Инструкция за употреба / Ръководство за монтаж 28
SQ / Udhëzuesi i përdorimit / Udhëzime rreth montimit 29
AR / دليل الاستخدام / تعليمات التجميع 30



AXOR Starck
10751XXX

INSTALLATION

⚠ SAFETY NOTES

⚠ Gloves should be worn during installation to prevent crushing and cutting injuries.

⚠ The product may only be used for bathing, hygienic and body cleaning purposes.

⚠ Children as well as adults with physical, mental and/or sensoric impairments must not use this product without proper supervision. Persons under the influence of alcohol or drugs are prohibited from using this product.

⚠ The hot and cold supplies must be of equal pressures.

INSTALLATION INSTRUCTIONS

/ Prior to installation, inspect the product for transport damages. After it has been installed, no transport or surface damage will be honoured.

/ The pipes and the fixture must be installed, flushed and tested as per the applicable standards.

/ The plumbing codes applicable in the respective countries must be observed.

TECHNICAL DATA

Operating pressure:	max. 1 MPa
Recommended operating pressure:	0,1 - 0,5 MPa
Test pressure:	1,6 MPa
	(1 MPa = 10 bar = 147 PSI)
Hot water temperature:	max. 70°C
Recommended hot water temp.:	65°C
Rate of flow by 0,3 MPa:	
1 Consumer	approx. 44 l/min
2 Consumer	approx. 55 l/min
Thermal disinfection:	max. 70°C/4 min

/ Safety against backflow

/ The product is exclusively designed for drinking water!

SPECIAL INFORMATION FOR UK (see page 36)

SYMBOL DESCRIPTION

Do not use silicone containing acetic acid!

max. ≈42°C

SAFETY FUNCTION (see page 32)

The desired maximum temperature for example max. 42° C can be pre-set thanks to the safety function.

ADJUSTMENT (see page 32)

After the installation, the output temperature of the thermostat must be checked. A correction is necessary if the temperature measured at the output differs from the temperature set on the thermostat.

MAINTENANCE (see page 34)

/ The check valves must be checked regularly according to DIN EN 1717 in accordance with national or regional regulations (at least once a year).

/ To guarantee the smooth running of the thermostat, it is necessary from time to time to turn the thermostat from total hot to total cold.

DIMENSIONS (see page 33)

OPERATION (see page 33)

SPARE PARTS (see page 35)

XXX = Colors
000 = Chrome Plated
140 = Brushed Bronze

CLEANING (see page 40)

TEST CERTIFICATE (see page 35)

FAULT	CAUSE	REMEDY
/ Insufficient water	/ Supply pressure inadequate	/ Check water pressure (If a pump has been installed check to see if the pump is working).
	/ Regulator filter dirty	/ Clean filter in front of the mixer and on the MTC-thermo cartridge
	/ Shower filter seal dirty	/ Clean filter seal between shower and hose
	/ contaminated dirt catch sieve in front of the backflow stop	/ Clean filters
/ Crossflow, hot water being forced into cold water pipe, or vice versa, when mixer is closed	/ Backflow preventers dirty or leaking	/ Clean backflow preventers, exchange if necessary
/ Spout temperature does not correspond with temperature set	/ Thermostat has not been adjusted	/ Adjust thermostat
	/ Hot water temperature too low	/ Increase hot water temperature to 42 °C to 65 °C
/ Temperature regulation not possible	/ Temperature regulator dirty or calcified	/ Clean temperature regulator, exchange if necessary
	/ For new installations: basic body incorrectly connected (should be: cold right, hot left) or installed with 180° rotation	/ change connections
/ Safety stop button not operating	/ Spring defective	/ Clean spring and/or button, exchange if necessary
	/ Button calcified	

ASSEMBLY (see page 31)

⚠ UDHËZIME SIGURIE

⚠ Për të evituar lëndimet e pickimeve ose të prerjeve gjatë procesit të montimit duhet që të vishni doreza.

⚠ Produkti duhet të përdoret vetëm qëllimet e banjave, të higjienës dhe të larjes së trupit.

⚠ Fëmijët dhe të rriturit me aftësi të kufizuara fizike, mendore dhe/ose ndijuese nuk duhet ta përdorin produktin pa qenë nën mbikëqyrje. Personat që janë nën ndikimin e drogave ose të alkoolit nuk duhet ta përdorin produktin.

⚠ Ndryshimet e mëdha të presionit mes lidhjeve të ujit të ftohtë dhe atij të ngrohtë duhen ekuilibruar.

UDHËZIME PËR MONTIMIN

/ Përpara montimit duhet që produkti të kontrollohet për dëmtime nga transporti. Pas instalimit nuk do të njihet asnjë dëmtim nga transporti ose dëmtim i sipërfaqes.

/ Tubacionet dhe rubinetet duhet që të montohen, të shpëlahen dhe të kontrollohen sipas standardeve në fuqi

/ Duhet të respektohen linjat udhëzuese të instalimit, të vlefshme për vendet respektive.

TË DHËNA TEKNIKE

Presioni gjatë punës	maks. 1 MPa
Presioni i rekomanduar:	0,1 - 0,5 MPa
Presioni për provë:	1,6 MPa
	(1 MPa = 10 bar = 147 PSI)
Temperatura e ujit të ngrohtë	maks. 70°C
Temperatura e rekomanduar e ujit të ngrohtë:	65°C
Kapaciteti i rrjedhjes në 0,3 MPa:	
1 Konsumator	afro 44 l/min
2 Konsumator	afro 55 l/min
Dezinfektim Termik:	maks. 70°C/4 min

/ Siguresa kundër rrjedhjes në drejtim të kundërt

/ Produkti është projektuar ekskluzivisht për ujë të pijshëm!

PËRSHKRIMI I SIMBOLIT

Mos përdorni silikon që në përbërje ka acid acetik.

max. ≈42°C

FUNKSIONET E SIGURISË (shih faqen 32)

Falë Safety Function mund të përcaktohet temperatura maksimale e dëshiruar, p.sh. 42 °C.

JUSTIMI (shih faqen 32)

Pas montimit duhet kontrolluar temperatura në dalje e termostatit. Korrigjimet janë të nevojshme, nëse temperatura e matur në pikën e rrjedhjes së ujit nuk është e njëjtë me temperaturën e përcaktuar në termostat.

MIRËMBAJTJA (shih faqen 34)

/ Penguesit e rrjedhjes në drejtim të kundërt duhen kontrolluar rregullisht në bazë të normave DIN EN 1717 konform normave nacionale dhe regjionale (së paku një herë në vit).

/ Për të lehtësuar përdorimin e njësisë rregulluese, termostati do të duhej çuar herë pas here nga shumë i ngrohtë në shumë të ftohtë.

PËRMASAT (shih faqen 33)

PËRDORIMI (shih faqen 33)

PJESËT E SERVISIT (shih faqen 35)

XXX = Kodimi me anë të ngjyrave
000 = Krom
140 = Brushed Bronze

PASTRIMI (shih faqen 40)

SHENJA E KONTROLLIT (shih faqen 35)

DEMTIM	SHKAKU	NDIHME
/ Pak ujë	/ Presioni ushqyes jo limjaftueshem	/ Kontrolloni presionin e tubacionit
	/ Sita qe mbledh papastertite tek njesia rregulluese eshte me papasterti	/ Pastroni siten para termostatit dhe mbi njesine rregulluese
	/ Gomina hermetizuese e pajisjes me papasterti	/ Pastroni gominen e sites midis pajisjes dhe tubit
	/ Filtri përpara kundërvalvulës është i bllokuar	/ Pastroni siten qe mbledh papastertite
/ Rrjedhje e kryqezuar, uji i ngrohte do te cohet tek tubacioni i ujit te ftohte kur armatura eshte e mbyllur ose anasjelltas	/ Penguesi i rrjedhjes mbrapsht te ujit me papasterti ose me defekt	/ Pastroni ose kembeni penguesinn e rrjedhjes mbrapsht te ujit
/ Temperatura reale nuk perputhet me temperaturen e regjistruar	/ Termostati nuk eshte rregulluar	/ Rregulloni termostatin
	/ Temperaturë e ulët e ujit të ngrohtë	/ Rrisni temperaturen e ujit te ngrohte nga 42 °C deri 65 °C
/ Rregullimi i temperatures nuk eshte i mundur	/ Njesia rregulluese e temperatures me papasterti ose me kalk	/ Pastroni ose kembeni njesine rregulluese te temperatures
	/ Tek instalimi i ri karkasa baze eshte lidhur gabim(Duhet: ftohte djathtas, ngrohte majtas) ose eshte montuar 180grade ndryshe	/ Rregulloni lidhjet
/ Butoni i bllokuesit te sigurise pa funksion	/ Susta me defekt	/ Pastroni butonin ose susten dhe grasatojeni pak, ose nderrojeni
	/ Butoni me kalk	

⚠ تنبيهات الأمان

⚠ يجب إرتداء قفازات لليد أثناء التركيب لتجنب حدوث أخطار الإنحشار أو الجروح.

⚠ لا يجب استخدام المنتج إلا في أغراض الاستحمام والأغراض الصحية وأغراض تنظيف الجسم.

⚠ لا يسمح لأي أطفال أو أفراد بالغين يعانون من إعاقات بدنية أو ذهنية أو حسية أو يعانون من جميع هذه الإعاقات باستخدام المنتج إلا تحت إشراف آخرين. كما أنه لا يسمح لأي شخص تحت تأثير تناول الكحول أو المخدرات باستخدام نظام الدش.

⚠ يجب أن يكون تيار الماء الساخن والماء البارد متعادلين في الضغط.

تعليمات التركيب

/ قبل القيام بعملية التركيب، يجب فحص المنتج للتأكد من خلوه من أية تلفيات ناتجة عن النقل. بعد القيام بعملية التركيب، لن يتم الاعتراف بوجود أية تلفيات سطحية أو تلفيات ناتجة عن عملية النقل.

/ يجب تركيب وغسيل واختبار التوصيلات وخلاطات المياه طبقاً للمعايير السارية.

/ يجب مراعاة القواعد الخاصة بالتركيب وأعمال السباكة وفقًا للوائح الخاصة بكل بلد.

المواصفات الفنية

ضغط التشغيل:	الحد الأقصى 1 ميجابسكال
ضغط التشغيل الموصى به:	0,1 - 0,5 ميجابسكال
ضغط الاختبار:	1,6 ميجابسكال
	(1 ميجابسكال = 10 بار = 147 PSI)
درجة حرارة الماء الساخن:	الحد الأقصى 70°C
درجة الحرارة الموصى بها للماء الساخن:	65°C
معدل التدفق عند ضغط 0,3 ميجابسكال:	
1 المستهلك	تقريبًا 44 لتر / الدقيقة
2 المستهلك	تقريبًا 55 لتر / الدقيقة
تعقيم حراري:	الحد الأقصى 70°C / 4 الدقيقة

/ خاصية عدم التدفق العكسي

/ المنتج مخصص فقط لماء الشرب!

وصف الرمز

هام! لا تستخدم السليكون الذي يحتوي على أحماض!

max. ≈42°C **وظيفة الأمان** (راجع صفحة 32)

يمكن إجراء ضبط مسبق للحد الأقصى لدرجة الحرارة المرغوبة، على سبيل المثال بحد أقصى 42° بفضل وظيفة الأمان.

الضبط (راجع صفحة 32)

بعد التركيب يجب فحص درجة حرارة الترموستات. يلزم إجراء تصحيح إذا اختلفت درجة الحرارة المقاسة عند موقع القياس عن درجة حرارة الترموستات.

الصيانة (راجع صفحة 34)

/ يجب فحص صمام عدم الرجوع بصفة منتظمة حسب المواصفة DIN EN 1717 وذلك طبقاً للوائح الوطنية أو الإقليمية (مرة واحد سنوياً على الأقل).

/ لضمان التشغيل السلس للثرموستات، من الضروري تحويله من وقت إلى آخر من أقصى السخونة إلى أقصى البرودة.

أبعاد (راجع صفحة 33)

التشغيل (راجع صفحة 33)

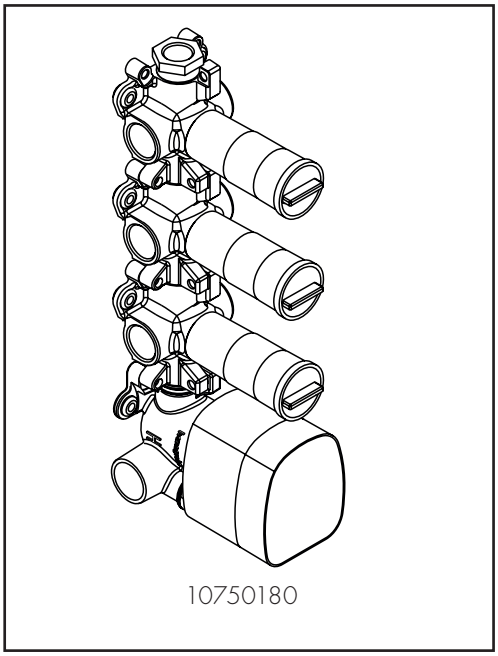
قطع الغيار (راجع صفحة 35)
XXX = الألوان
000 = كروم
Brushed Bronze = 140

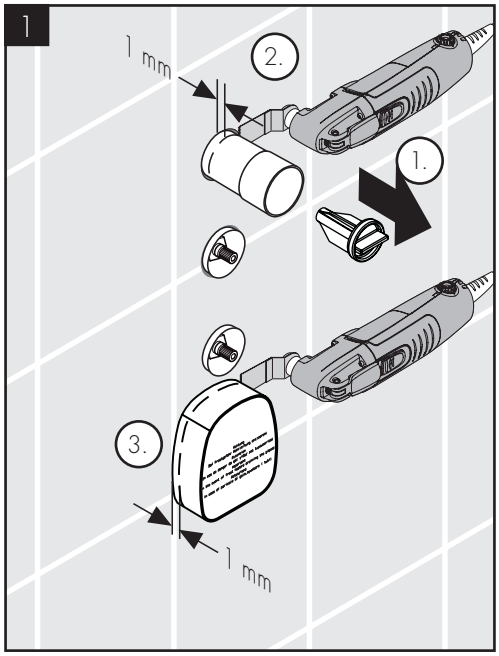
التنظيف (راجع صفحة 40)

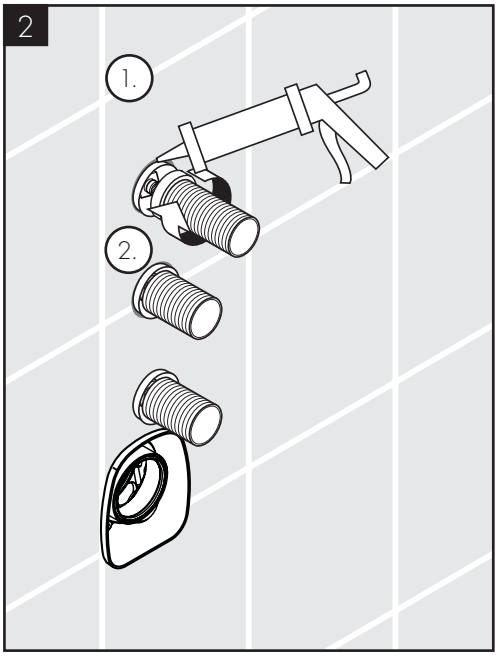
شهادة اختبار (راجع صفحة 35)

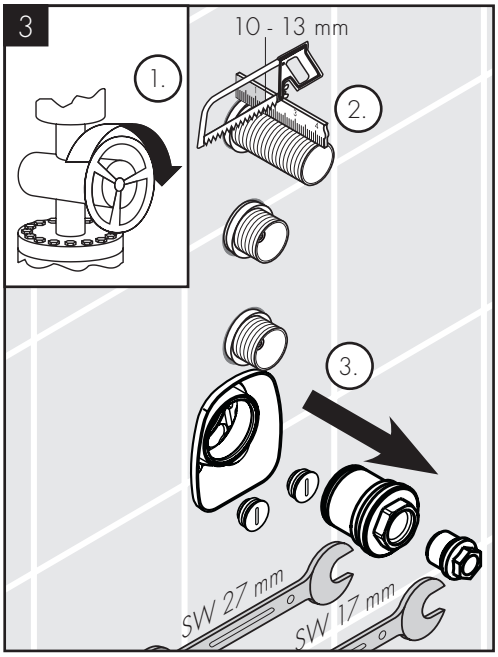
العطل	السبب	العلاج والإصلاح
/ الماء غير كافٍ	/ ضغط الإمداد ليس كافيًا	/ افحص ضغط المواسير
	/ مرشح الاتساخات الخاص بالمنظم متسخ	/ نظف مرشحات الاتساخات إلى الثرموستات والمنظم
	/ سدادة مصفاة الدش متسخة	/ نظف سدادة المصفاة بين الدش والخرطوم
	/ مصفاة إلتقاط الأوساخ قبل مانع رجوع السوائل متسخة	/ قم بتنظيف مرشح الاتساخات
/ تدفق منعكس للمياه! الماء الساخن يندفع في ماسورة البارد أو العكس والخلاط مغلق.	/ صمام منع الرجوع متسخ / تالف	/ قم بتنظيف صمام منع الرجوع أو تغييره إذا لزم الأمر
/ حرارة المياه لا تتوافق مع درجة الحرارة المضبوطة	/ لم يتم ضبط الثرموستات	/ اضبط الثرموستات
	/ درجة حرارة الماء الساخن منخفضة للغاية	/ ارفع حد الماء الساخن إلى 65° – 42° درجة مئوية
/ تنظيم الحرارة غير ممكن	/ منظم الحرارة متسخ أو عليه جير	/ قم بتنظيف منظم الحرارة أو تغييره إذا لزم الأمر
	/ تم تركيب الجزء الرئيسي من الخلاط بشكل خاطيء (ينبغي أن يكون البارد يمينًا، والساخن يسارًا) أو تم عكسه 180 درجة	/ قم بتغيير الوصلات
/ زر الضغط الخاص بقفل الأمان لا يعمل	/ الياي تالف	/ قم بتنظيف الياي أو زر الضغط مع تشحيمهما بشكل خفيف، أو قم بتغييرهما إذا لزم الأمر
	/ هناك جير على زر الضغط	

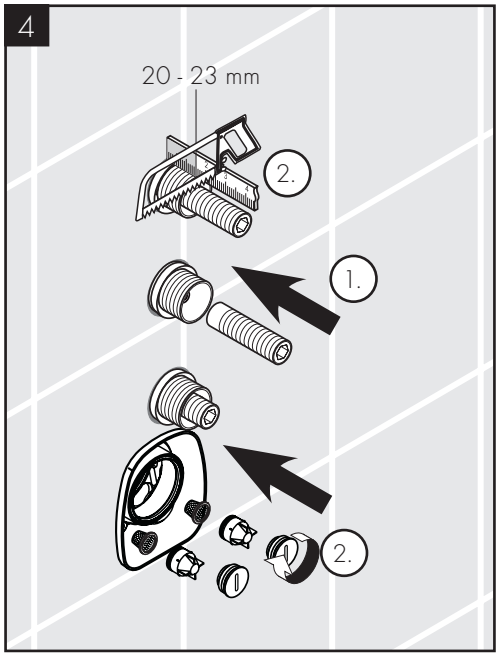
التركيب (راجع صفحة 31)

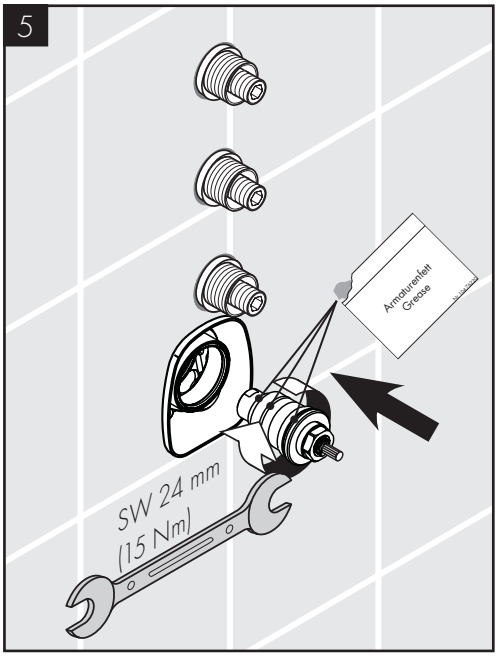

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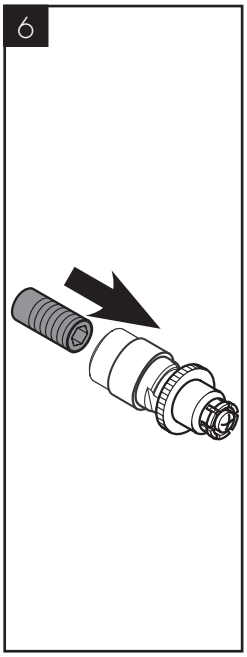

1
1 mm
2.
1.
3.
1 mm

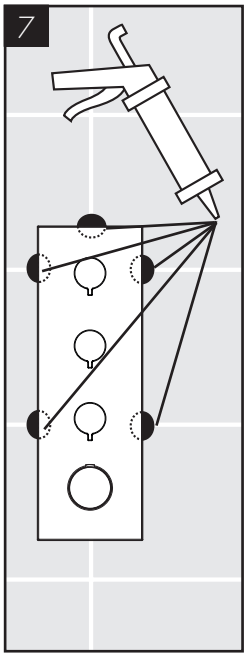

2
1.
2.

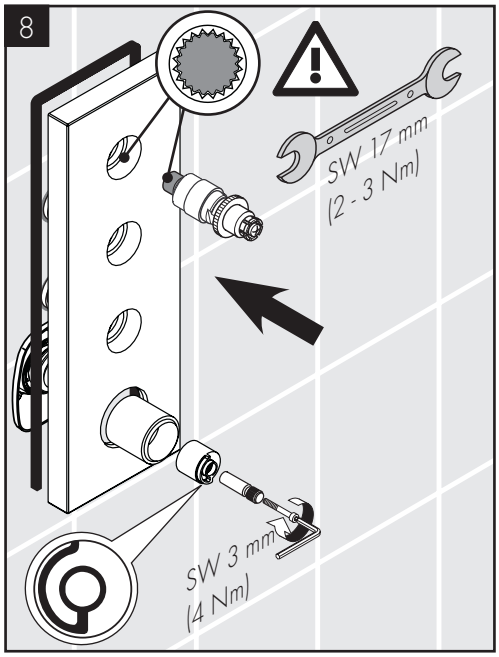

3
10 - 13 mm
1.
2.
3.
SW 27 mm
SW 17 mm

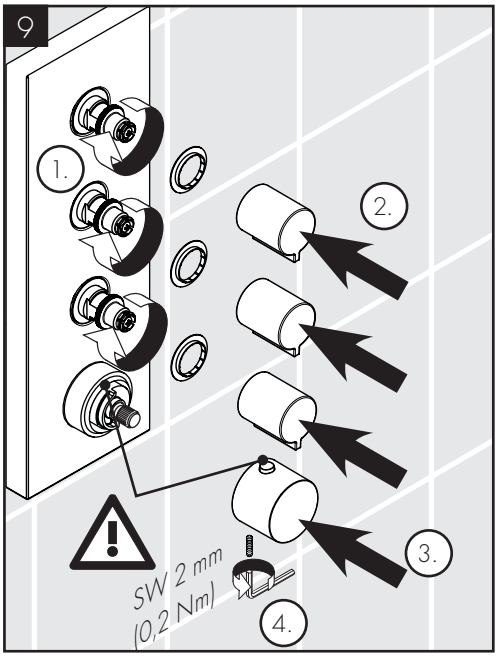

4
20 - 23 mm
2.
1.
2.

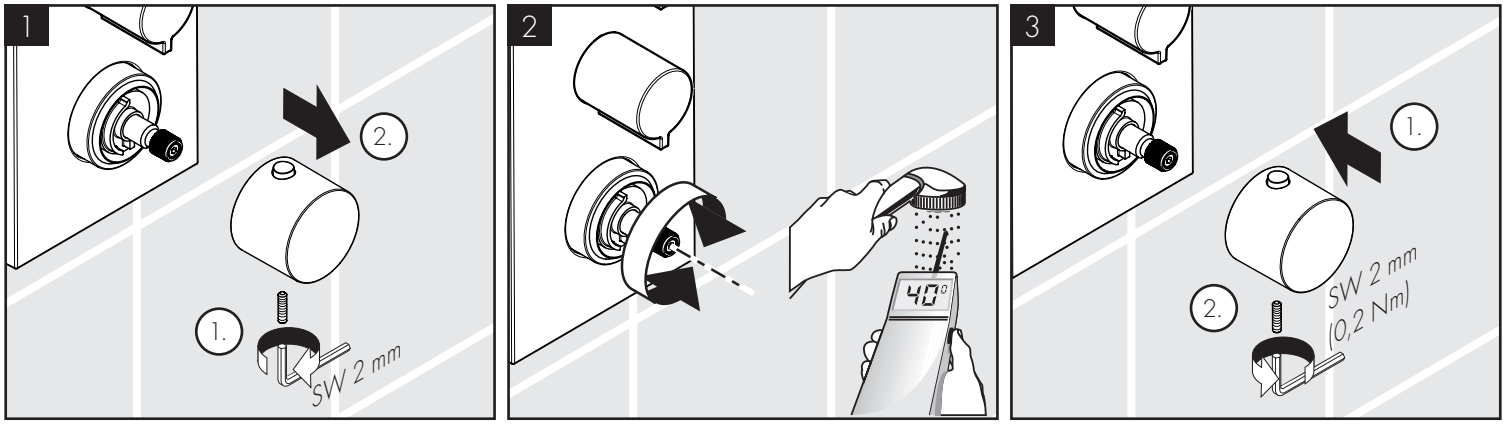

5
Armaturenfett
Grease
SW 24 mm
(15 Nm)


6

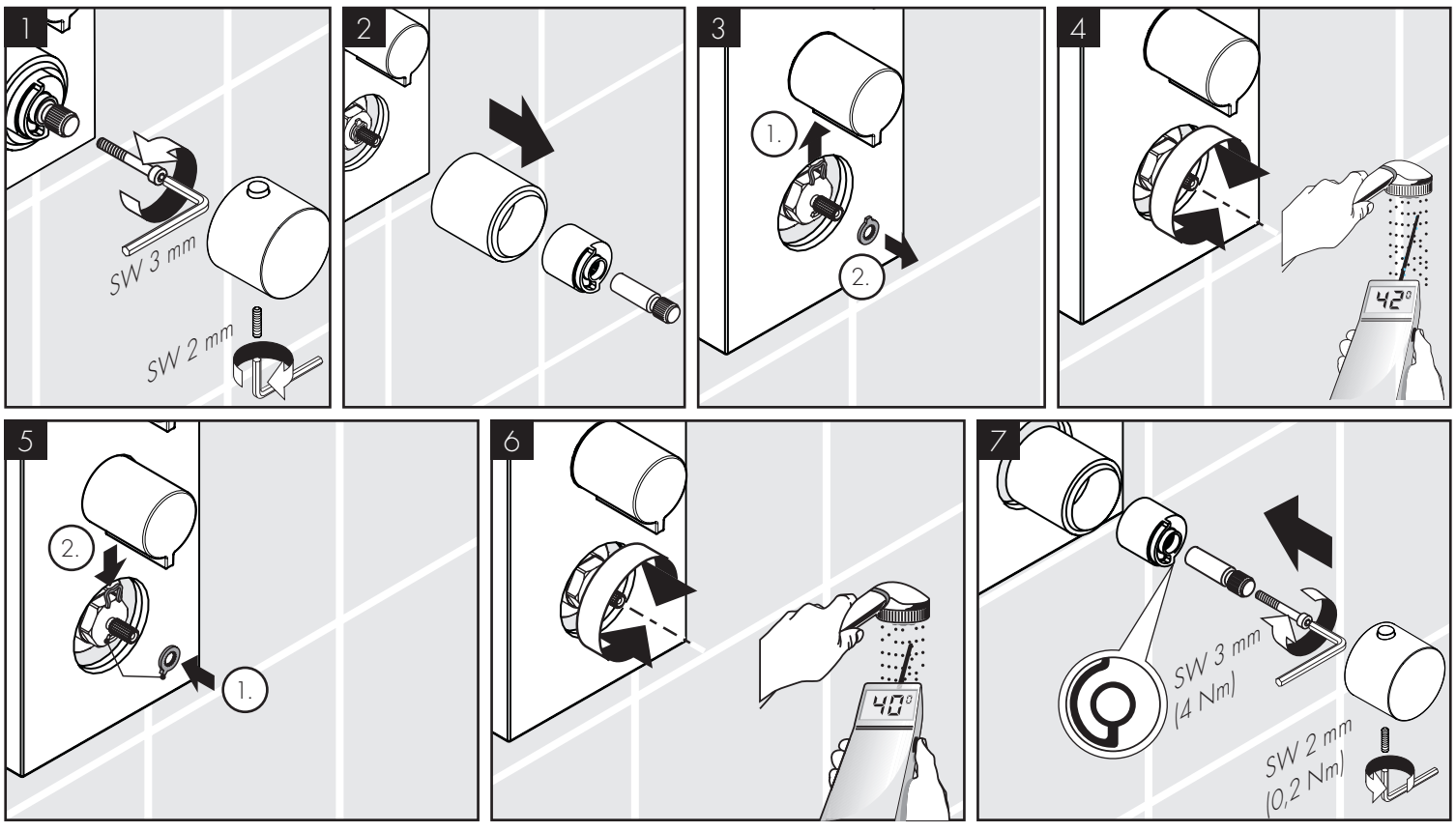

7

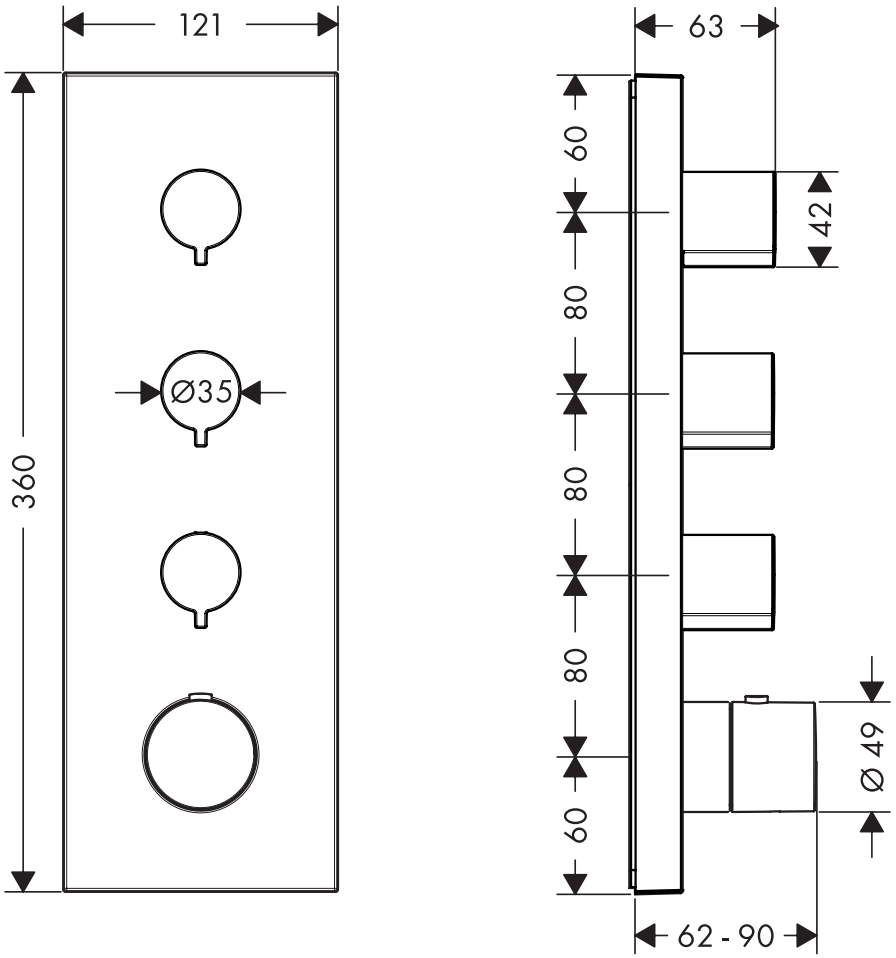

8
SW 17 mm
(2 - 3 Nm)
SW 3 mm
(4 Nm)

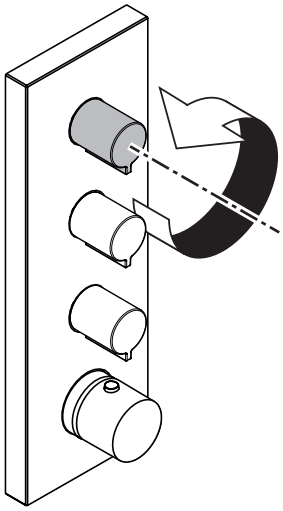

9
1.
2.
3.
SW 2 mm
(0,2 Nm)
4.


1
2.
1.
SW 2 mm
2
40°
3
1.
2.
SW 2 mm
(0,2 Nm)

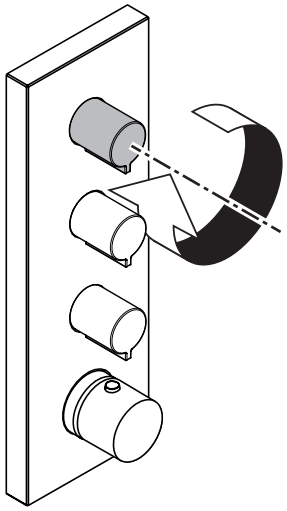
max.
≈42°C


1
SW 3 mm
SW 2 mm
2
3
1.
2.
4
42°
5
2.
1.
6
40°
7
SW 3 mm
(4 Nm)
SW 2 mm
(0,2 Nm)

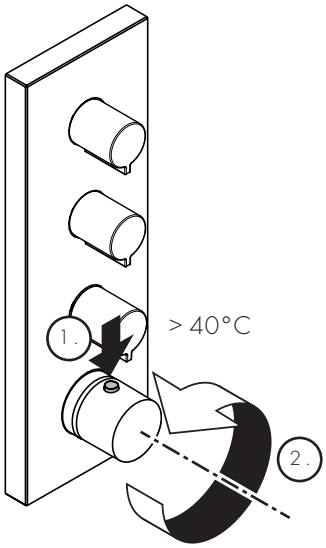


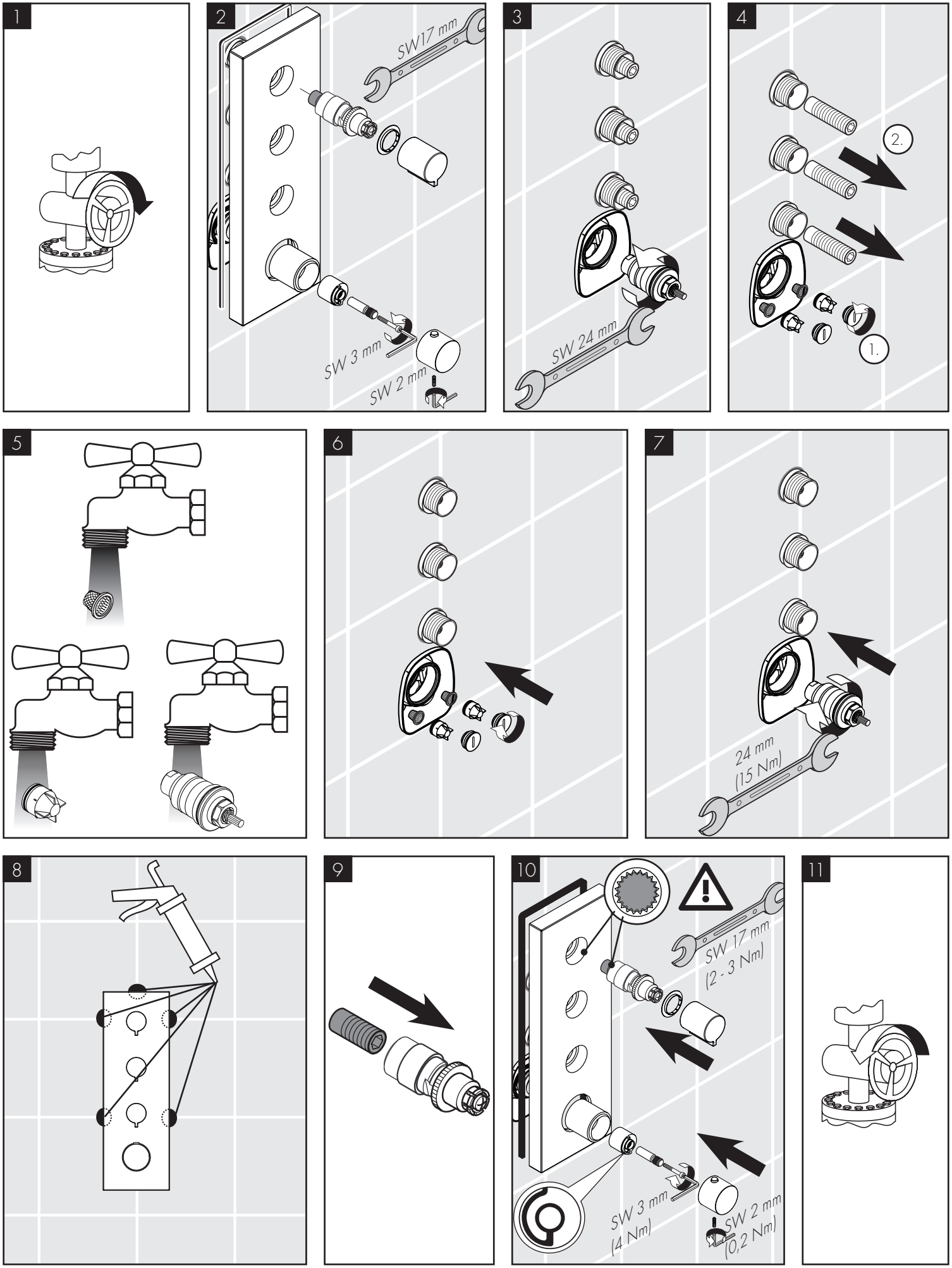


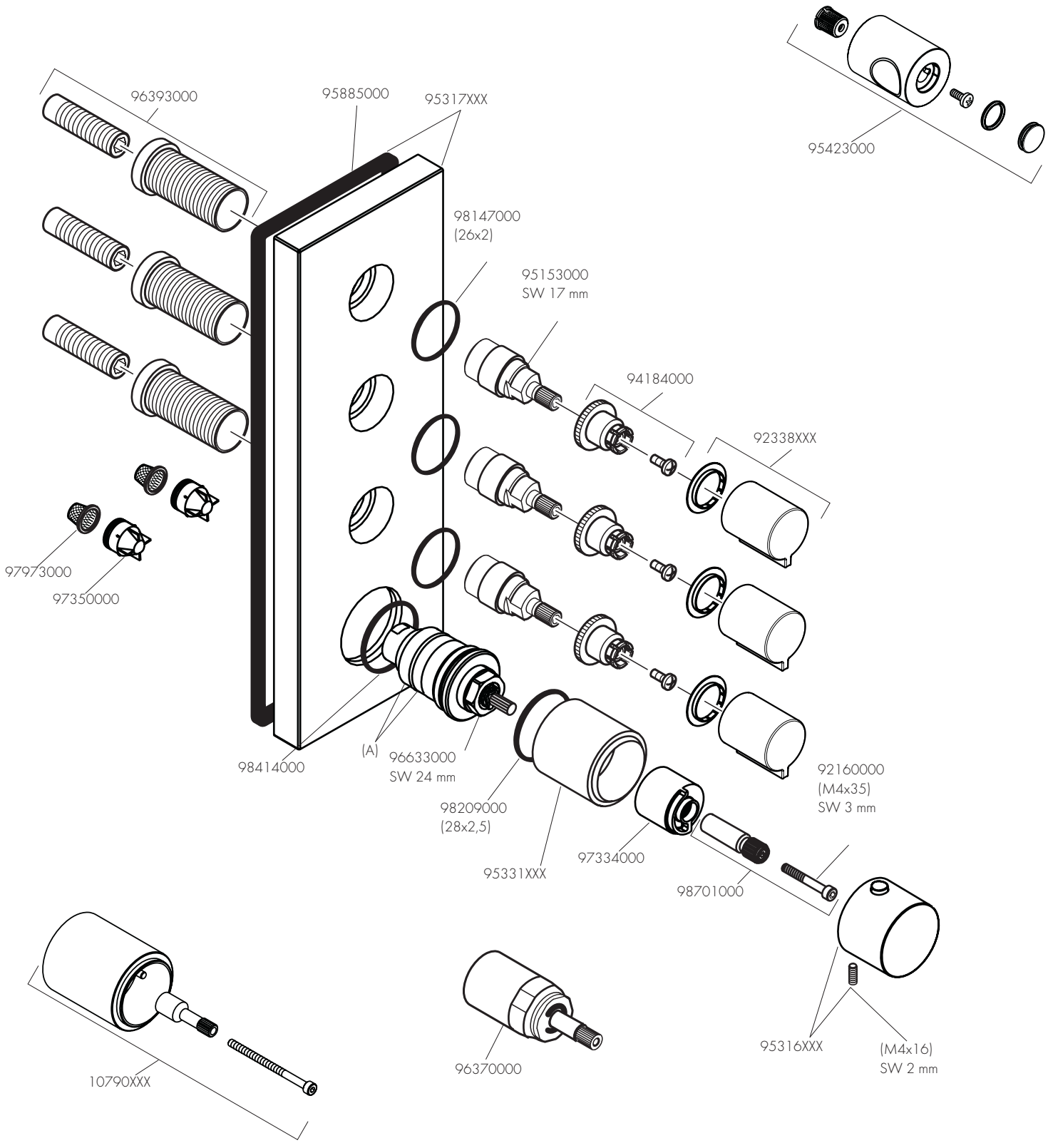
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schließen / fermé / close / chiudere / cerrar / sluiten / lukke / fechar / zamknąć / zavřít / uzavrieť / 关 / закрыть / bezárás / sulkeminen / stänga / uždaryti / Zatvaranje / kapatmak / închide / κλειστό / zapreti / sulgege / aizvērt / zatvori / lukke / затваряне / mbylle / إغلاق




1
2
SW17 mm
SW 3 mm
SW 2 mm
3
SW 24 mm
4
2.
1.
5
6
7
24 mm
(15 Nm)
8
9
10
SW 17 mm
(2 - 3 Nm)
SW 3 mm
(4 Nm)
SW 2 mm
(0,2 Nm)
11



	DVGW	SVGW	KIWA	WRAS		ACS
10751XXX		X		X	1401	X

ON THE FOLLOWING PAGES 36 - 39 YOU CAN FIND IMPORTANT INFORMATION ONLY FOR THE INSTALLATION IN UK

SAFETY AND IMPORTANT INFORMATION

Hansgrohe products are safe provided they are installed, used and maintained in accordance with these instructions and recornrnendations.

Please read these instructions thoroughly and retain for future use.

The plumbing installation of this thermostat mixing valvemust comply with the requirements of UK

Water Regulations/Bylaws (Scotland), Building Regulations or any other regulations specified by the local Water Authority and supplier.

The installation of thermostatic mixing valves must comply with the requirements of the Water Supply (Water Fittings) Regulations 1999.

We strongly recommend that you use a plumber registered with or a member of an Association:

Chartered Institute of Plumbing and Heating Engineering (CIPHE)

Water Industry Approved Plumber Scheme (WIAPS)

Dispose of plastic bags carefully

Keep children well away from the work area.

Check for hidden pipes and cables in the wall before drilling holes.

The unit must be mounted on a finished waterproofed wall surface (usually tiles).

If you are using power tools (e.g. to drill holes) wear safety glasses and always disconnect tools from the power supply after use.

Do not operate the shower unit if the hand shower or spray hose has been damaged or is blocked.

Do not block the flow of water from the hand shower, by placing it on your hand or any other part of your body or foreign object.

The thermostatic unit should be serviced annually by a qualified person to ensure maximum safety during use.

The mixer is fitted with check valves (page 35 pos. 97350000). There are filters on the thermostatic element too (page 35 pos. 97973000 and A).

The fitting of isolation valves is required (preferred location page 37 Installation Requirements)

Technical Hotline for UK only 01372465655

E-mail for UK only Technical@hansgrohe.co.uk

(Diese Servicehotline ist nur für das Vereinigte Königreich Großbritannien, nicht z. B. für Deutschland)

TECHNICAL DATA

This thermostatic valve will suit supplies of:
HIGH PRESSURE (HP-S)

Operating pressure:	max. 10 bar
Recommended operating pressure:	1 - 5 bar
Test pressure:	16 bar
Hot water temperature:	max. 70°C
Recommended hot water temp.:	65°C
Rate of flow:	55 l/min. @ 3 bar
Maximum outlet temperature:	43°C +/-*
Safety check:	40°C
Hot water connection:	Left hand
Cold water connection:	Right hand
Minimum difference between hot water and mixed water temperature:	6 K

Hot and cold supply pressure should be balanced

MIXED WATER TEMPERATURE

Application	Mixed water temperature (at point of discharge).
Shower	41°C max.
Washbasin	41°C max.
Bath (44°C fill)	44°C max.
Bath (46°C fill)	46°C max.

* For preset outlet temperature adjustment – See page 32.
NB. If a water supply is fed by gravity then the supply pressure should be verified to ensure the conditions of use are appropriate for the valve. Valves operating outside of these supply conditions cannot be guaranteed to operate as a TMV2 or TMV3 valve.

RECOMMENDED OUTLET TEMPERATURES
The BuildCert TMV scheme recommends the following set maximum mixed water outlet temperatures for use in all premises:

- 44°C for bath fill but see notes below;
- 41°C for showers;
- 41°C for washbasins.

The mixed water temperatures must never exceed 46°C.
The maximum mixed water temperature can be 2°C above the recommended maximum set outlet temperatures.

NOTE: 46°C is the maximum mixed water temperature from the bath tap. The maximum temperature takes account of the allowable temperature tolerances inherent in thermostatic mixing valves and temperature losses in metal baths.
It is not a safe bathing temperature for adults or children.
The British Burns Association recommends 37 to 37.5°C as a comfortable bathing temperature for children. In premises covered by the Care Standards Act 2000, the maximum mixed water outlet temperature is 43°C

SUPPLY CONDITIONS TMV2

OPERATING PRESSURE RANGE	HIGH PRESSURE
Maximum static pressure - bar	10
Flow pressure, hot and cold - bar	0.5 to 5
Hot supply temperature - °C	55 to 65
Cold supply temperature - °C	5 to 25

INSTALLATION REQUIREMENTS

This thermostatic mixer valve must be installed in compliance with current Water Regulations. If you have any doubts about the Water Regulation requirements contact your local water services provider or use the services of a professional plumber.

This mixer valve is suitable for use with the following water supply systems:

Gas Combination Boiler (multi-point) 1.0 - 10 bar*

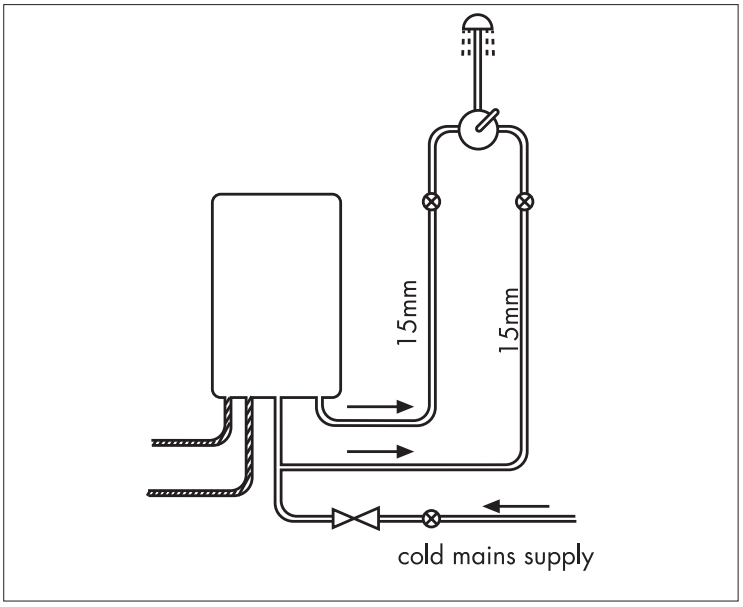
Unvented System (pressure balanced) 1.0 - 10 bar

Pumped System 1.0 - 10 bar

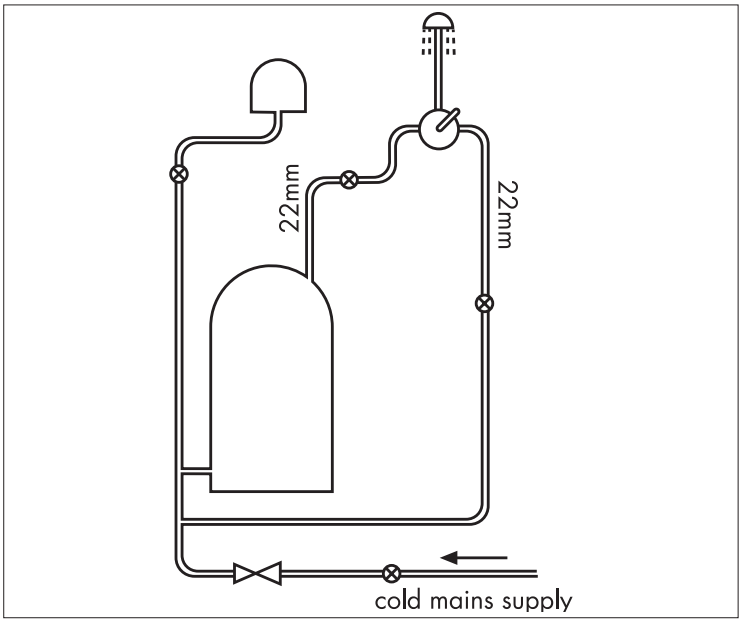
IMPORTANT: If you install this mixer with a gravity fed system, there must be a minimum head (vertical distance) from the underside of tlie cold water storage tank to the showerhead position of at least 5 metre.

Before connecting the mixer, water should be flushed through the system to remove all debris that might otherwise damage the valve.

* If pressure is in excess of 3.5 bar, a pressure-reducing valve should be fitted.



Gas Combination Boiler (multi-point)



Unvented System (pressure balanced)

KEY



Isolating valve



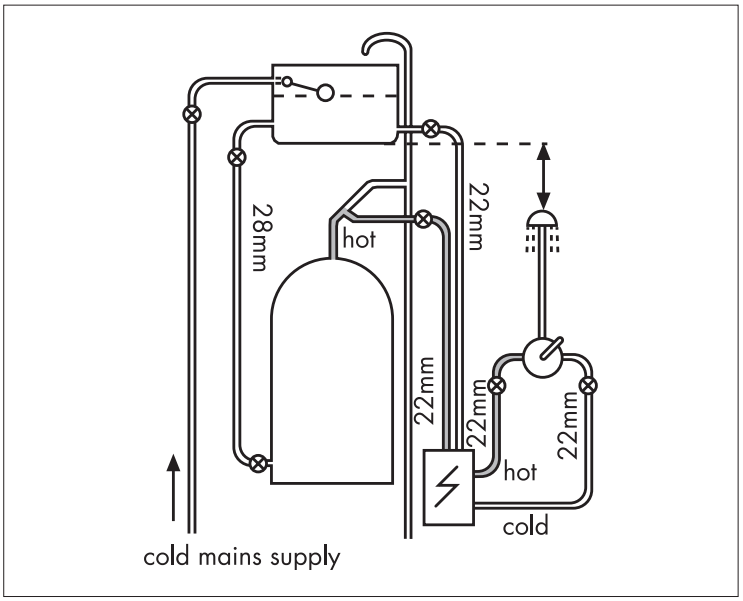
Reducing valve



Mixer Valve



Pump



Pumped System

COMMISSIONING AND IN-SERVICE TESTS

COMMISSIONING

PURPOSE

Since the installed supply conditions are likely to be different from those applied in the laboratory tests it is appropriate, at commissioning, to carry out some simple checks and tests on each mixing valve to provide a performance reference point for future in-service tests.

PROCEDURE

1. Check that:

   a) the designation of the thermostatic mixing valve matches the intended application
   b) the supply pressures are within the range of operating pressures for the designation of the valve
   c) the supply temperatures are within the range permitted for the valve and by guidance information on the prevention of legionella etc.

2. Adjust the temperature of the mixed water in accordance with the manufacturer's instructions (page 32) and the requirement of the application and then carry out the following sequence:

   a) record the temperature of the hot and cold water supplies
   b) record the temperature of the mixed water at the largest draw-off flow rate
   c) record the temperature of the mixed water at a smaller draw-off flow rate, which shall be measured
   d) isolate the cold water supply to the mixing valve and monitor the mixed water temperature
   e) record the maximum temperature achieved as a result of (d) and the final stabilised temperature

   NOTE: The final stabilised mixed water temperature should not exceed the values in Table A.

   f) record the equipment, thermometer etc. used for the measurements

   TABLE A: GUIDE TO MAXIMUM STABILISED TEMPERATURES RECORDED DURING SITE TESTS

Application	Mixed water temperature
Shower	43°C
Washbasin	43°C
Bath (44°C fill)	46°C
Bath (46°C fill)	48°C

   The mixed water temperature at terminal fitting should never exceed 46°C.

If there is a residual flow during the commissioning or the annual verification (cold water supply isolation test), then this is acceptable providing the temperature of the water seeping from the valve is no more than 2°C above the designated maximum mixed water outlet temperature setting of the valve.

Temperature readings should be taken at the normal flow rate after allowing for the system to stabilise.

The sensing part of the thermometer probe must be fully submerged in the water that is to be tested.

Any TMV that has been adjusted or serviced must be re-commissioned and re-tested in accordance with the manufacturers' instructions.

IN-SERVICE TESTS

PURPOSE

The purpose of in-service tests is to regularly monitor and record the performance of the thermostatic mixing valve. Deterioration in performance can indicate the need for service work on the valve and/or the water supplies.

PROCEDURE

1. Carry out the procedure 2. (a) to (e) on page 38 using the same measuring equipment, or equipment to the same specifications.

2. If the mixed water temperature has changed significantly from the previous test results (e.g. > 1 K), record the change and before re-adjusting the mixed water temperature check:

   a) that any in-line or integral strainers are clean
   b) any in-line or integral check valves or other anti-backsiphonage devices are in good working order
   c) any isolating valves are fully open

3. With an acceptable mixed water temperature, complete the procedure 2. (a) to (e) on page 38.

4. If at step 2. (e) on page 38 the final mixed water temperature is greater than the values in Table A and/or the maximum temperature exceeds the corresponding value from the previous test results by more than about 2 K, the need for service work is indicated.

   NOTE: In-service tests should be carried out with a frequency which identifies a need for service work before an unsafe water temperature can result. In the absence of any other instruction or guidance, the procedure described in „Frequency of in-service tests" may be used.

FREQUENCY OF IN-SERVICE TESTS TMV3*

GENERAL

In the absence of any other instruction or guidance on the means of determining the appropriate frequency of in-service testing, the following procedure may be used:

1. 6 to 8 weeks after commissioning carry out the tests given in 2. on page 38.

2. 12 to 15 weeks after commissioning carry out the tests given in 2. on page 38.

3. Depending on the results of 1. and 4. several possibilities exist:

   a) If no significant changes (e.g. < 1 K) in mixed water temperatures are recorded between commissioning and 1., or between commissioning and 4. the next in-service test can be deferred to 24 to 28 weeks after commissioning.
   b) If small changes (e.g. 1 to 2 K) in mixed water temperatures are recorded in only one of these periods, necessitating adjustment of the mixed water temperature, then the next in-service test can be deferred to 24 to 28 weeks after commissioning.
   c) If small changes (e.g. 1 to 2 K) in mixed water temperatures are recorded in both of these periods, necessitating adjustment of the mixed water temperature, then the next in-service test should be carried out at 18 to 21 weeks after commissioning.
   d) If significant changes (e.g. > 2 K) in mixed water temperatures are recorded in either of these periods, necessitating service work, then the next in-service test should be carried out at 18 to 21 weeks after commissioning.

4. The general principle to be observed after the first 2 or 3 in-service tests is that the intervals of future tests should be set to those which previous tests have shown can be achieved with no more than a small change in mixed water temperature.

*TMV2: THE FREQUENCY OF PERFORMING THE IN-SERVICE TESTS IS 1 YEAR MAXIMUM.

THERMOSTATIC ADJUSTMENT

TEMPERATURE LIMITATION

The temperature is limited by the safety stop to 40°C. If a higher temperature is required, it is possible to over ride the safety stop by depressing the safety button.

NB. It is recommended that for private domestic use the maximum mixed water temperature be set at the following factory set values:

Shower Mixer 43°C

Bath/Shower 43°C

Temperatures can be set by following the procedures on page 32. This ensures that after correct installation the outlet temperature of the water can never exceed 43°C.

To guarantee a smooth running of the thermostatic element, it is necessary from time to time to turn the thermostat from total hot to total cold. The thermostatic mixer valve should be checked annually by a qualified person to ensure correct operation.

The mixer is fitted with check valves (page 35 pos. 97350000) and filters (page 35 pos 97973000 and A). If the water flow drops the filters need to be cleaned. For that purpose please follow the steps 1 - 11 on page 34.

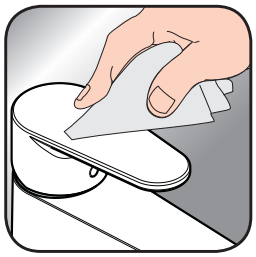
CALIBRATING THERMOSTAT

If the temperature reading is different to the showering temperature, follow the steps 1 - 4 on page 32.

AXOR

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