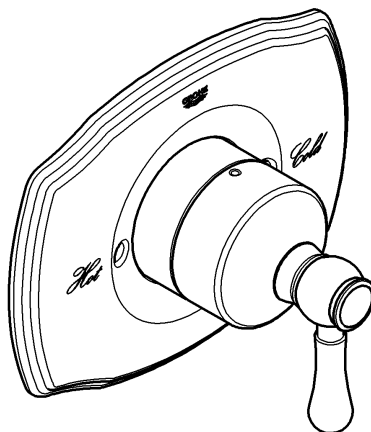
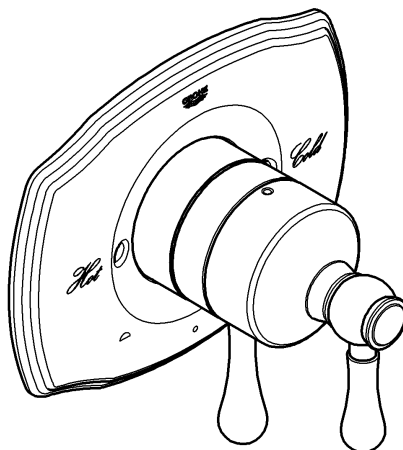




19 843

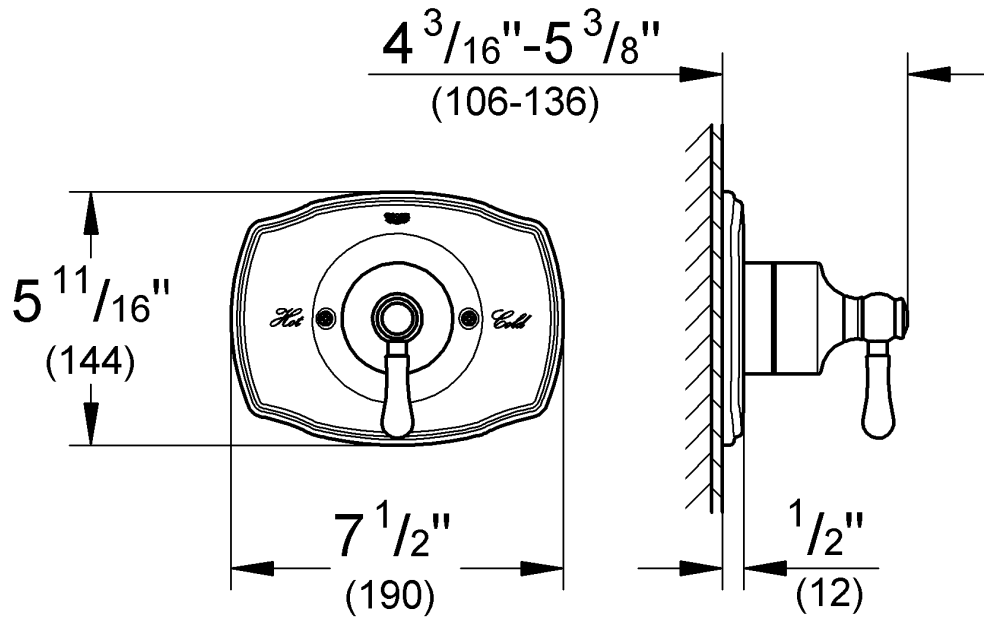


19 844

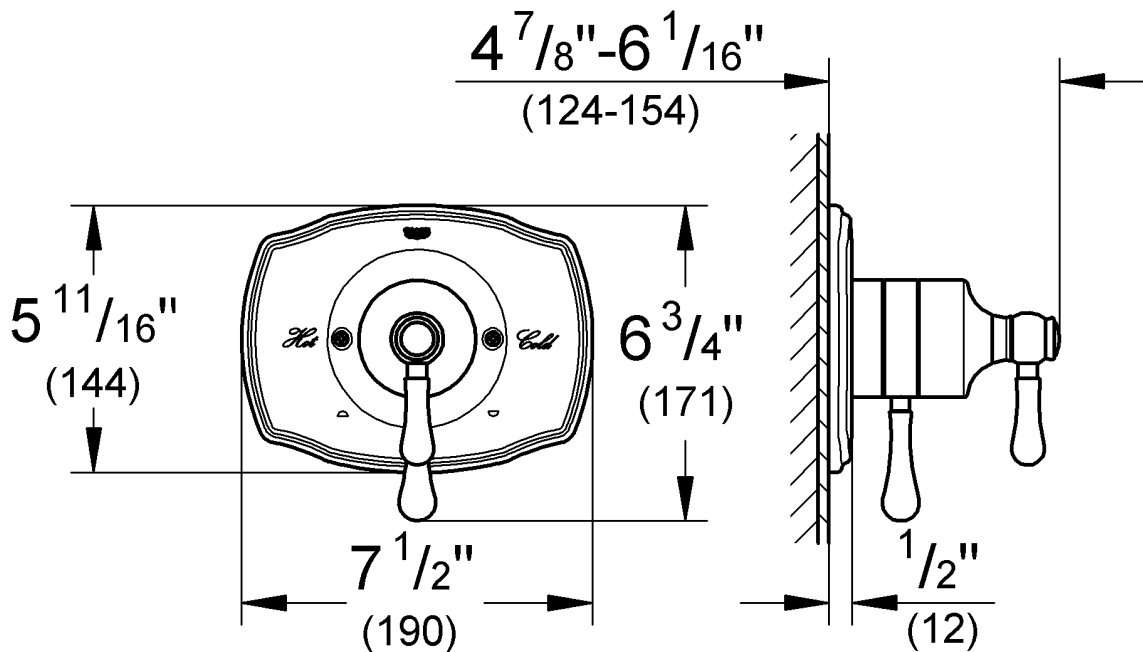


English	.....1
Français	.....6
Español	....11

**Type #1**  
**19 843**

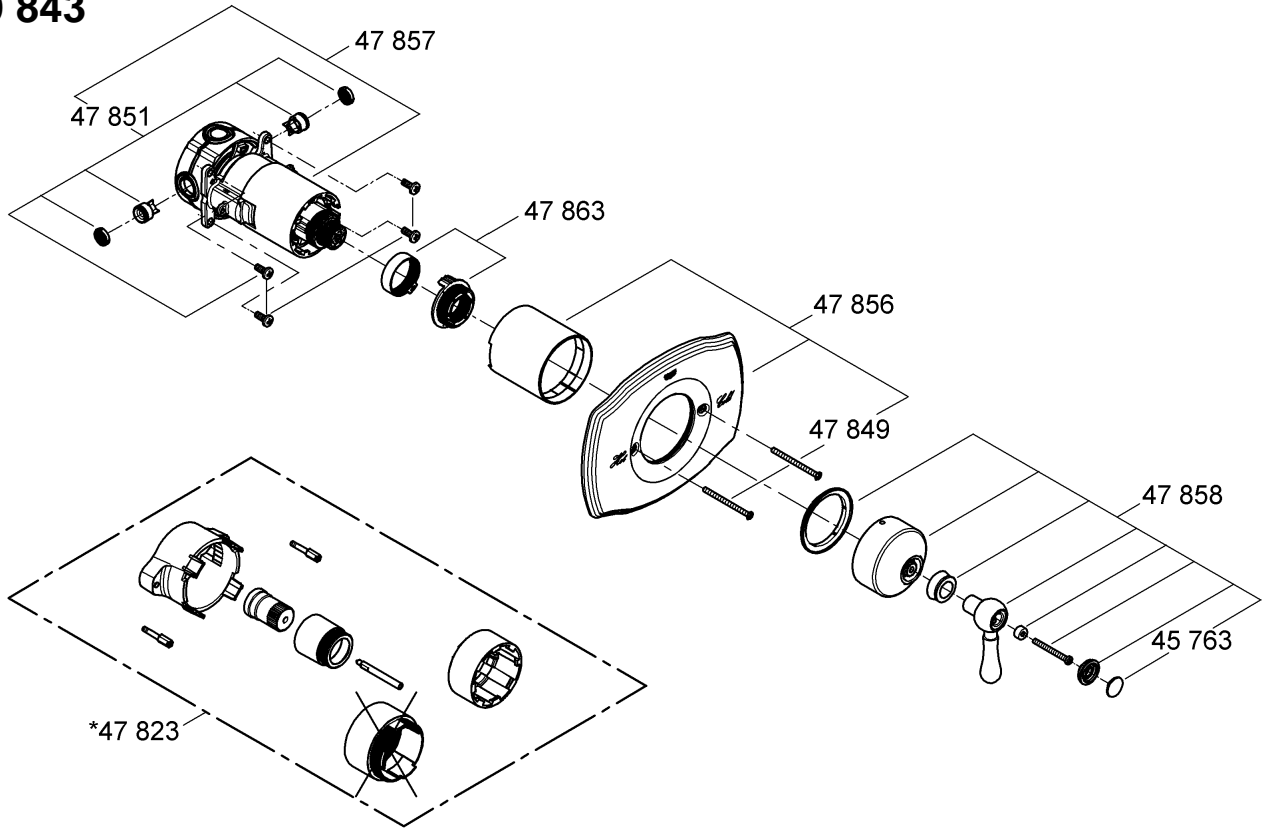


**Type #2**  
**19 844**

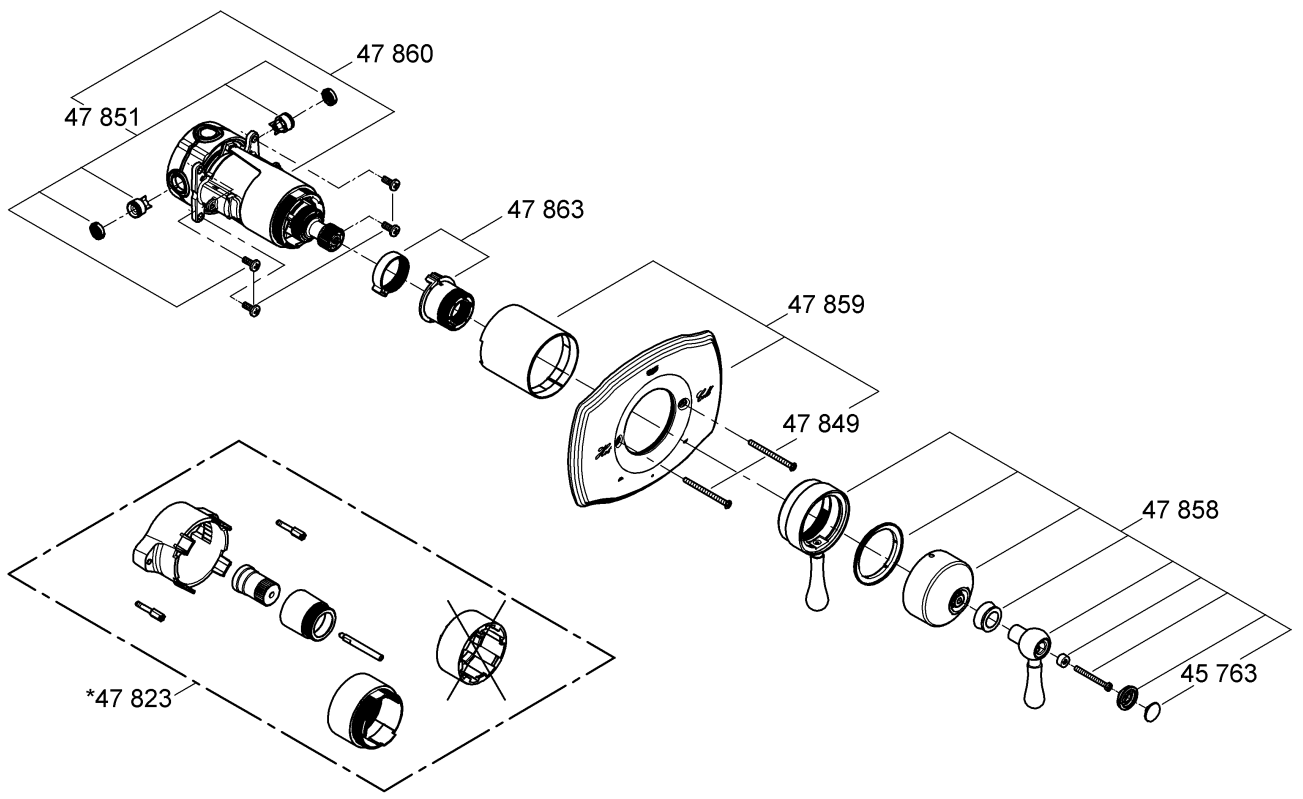


Please pass these instructions on to the end user of the fitting!  
S.v.p remettre cette instruction à l'utilisateur de la robinetterie!  
Entregue estas instrucciones al usuario final de la grifería!

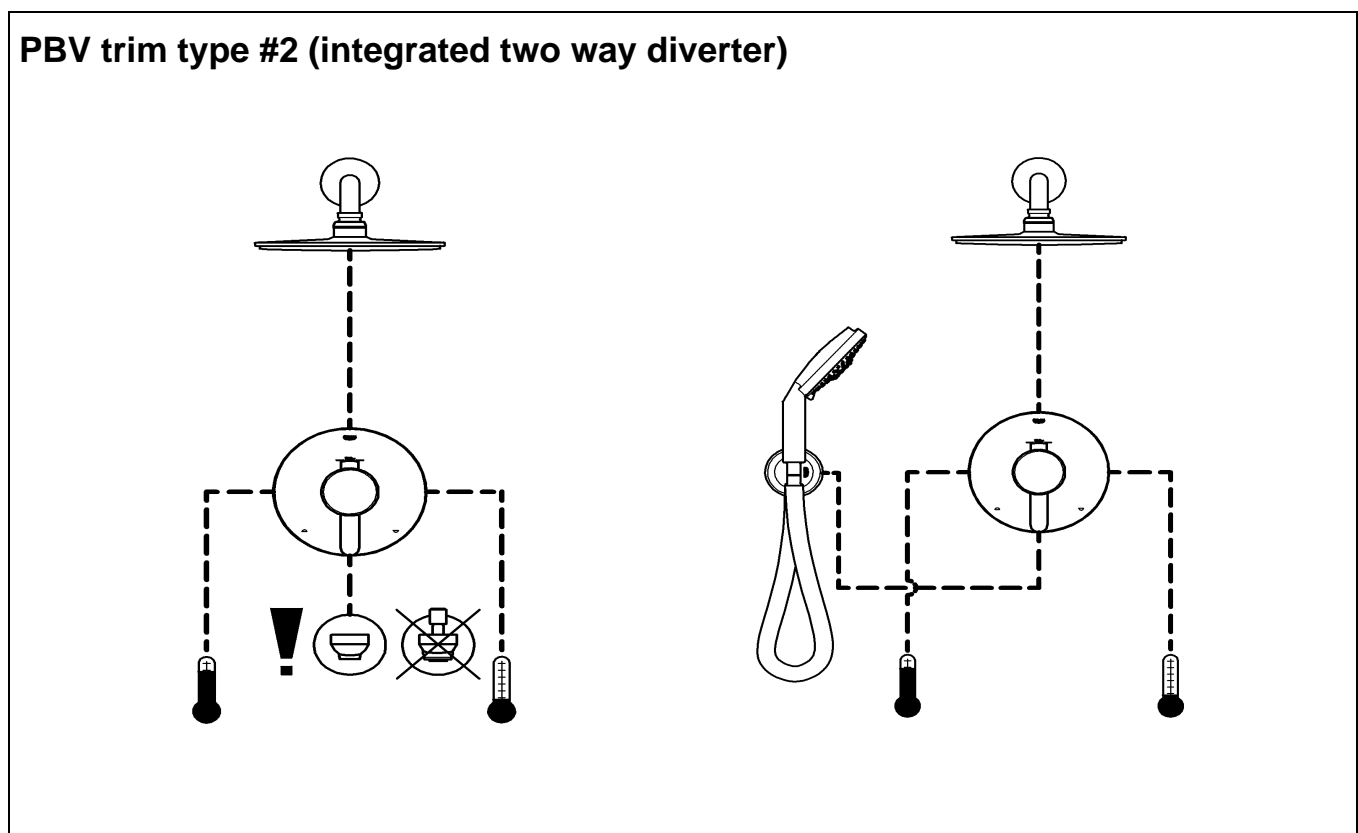
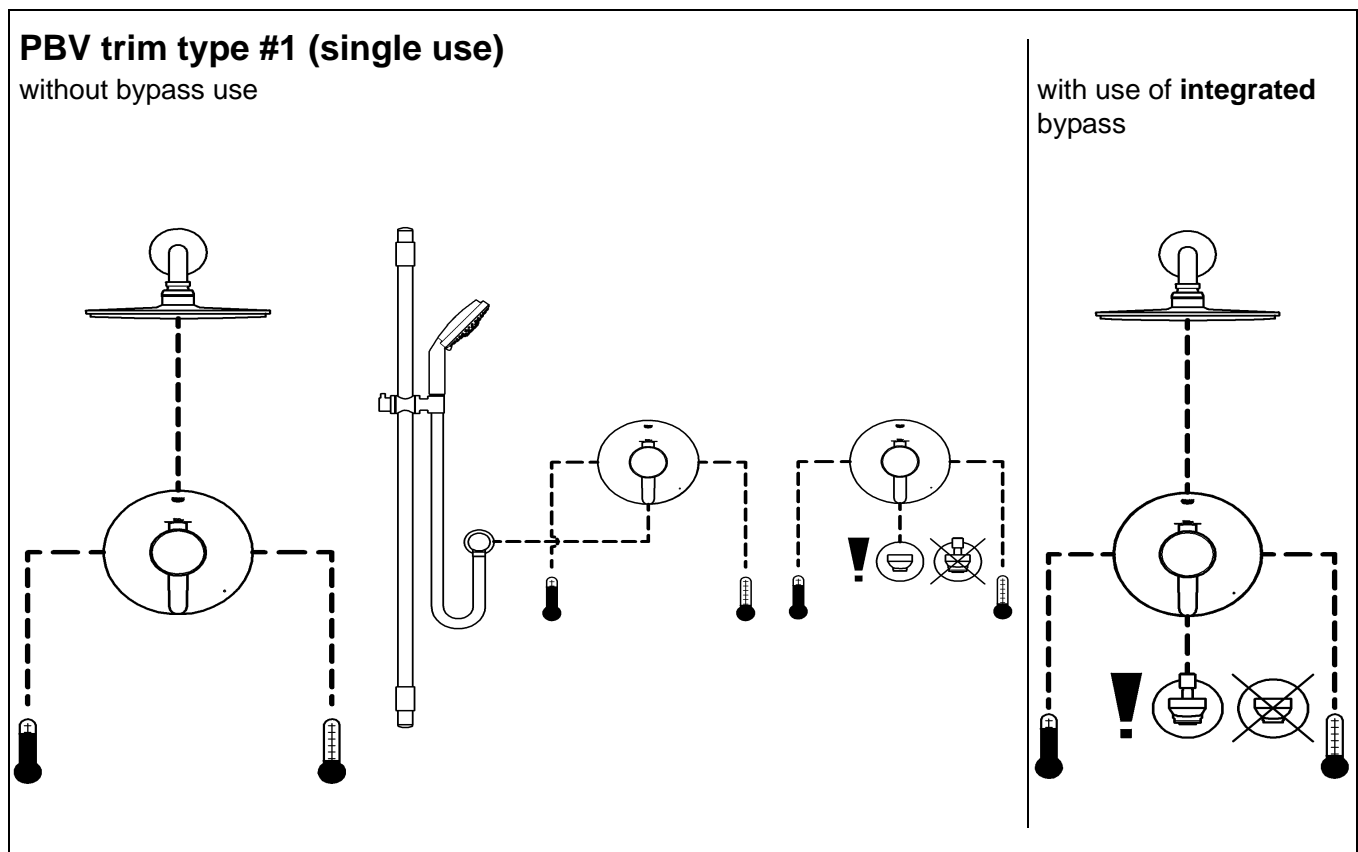
**Type #1**  
**19 843**



**Type #2**  
**19 844**



## Installation options with different types of trims



Please pass these instructions on to the end user of the faucet!

# English

## General Application

These Pressure Balance Valves are for use with GrohFlex™ universal rough-in valve.

Planing of piping is done at the time of the rough installation. 2 different types of PBVs are possible.

Observe the possible combinations, see Page 1.

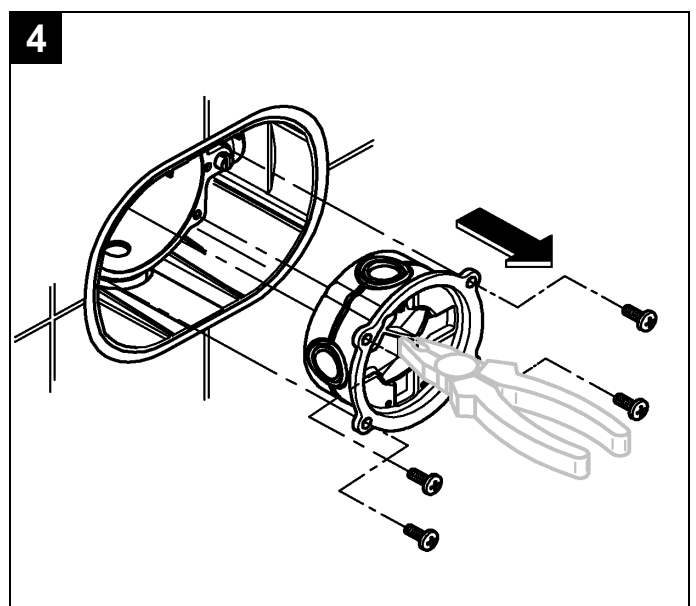
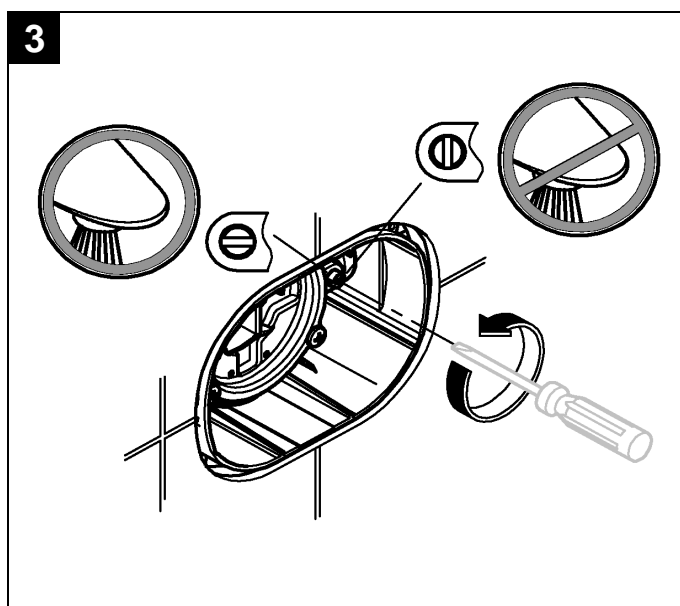
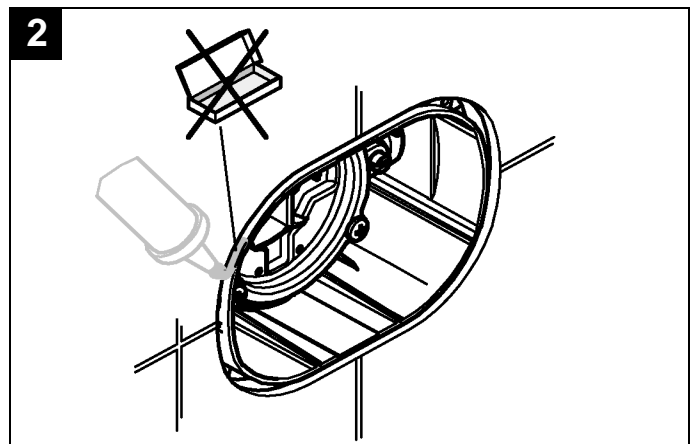
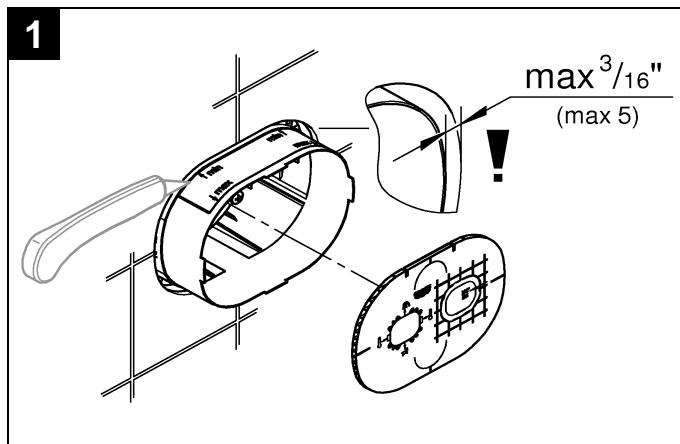
## Specification

- Concealed single handle pressure balancing valve for tub and shower
- Integral service stops
- Integral check valves prevent cross flow
- Pressure balanced diaphragm cartridge automatically adjusts to inlet pressure fluctuations
- Cartridge restricts hot water supply if the cold pressure fails, to prevent scalding
- Flow pressure:
  - min 1 bar or 14.5 psi
  - recommended 1-5 bar or 14.5 – 72.5 psi
 If greater than 5 bar or 72.5 psi, fit pressure reducing valve
- Max. operating pressure 8.5 bar or 125 psi
- Max. test pressure 34.5 bar or 500 psi

- Flow rates at 3 bar or 45 psi
  - Type #1 19 843 23 l/min or 6,1 gpm
  - Type #2 19 844 bottom outlet 20 l/min or 5,3 gpm
  - top outlet 11 l/min or 2,9 gpm
- Temperature
  - max. (hot water inlet) 80 °C or 180 °F
- The handle rotation stop may be used to limit the maximum temperature. The maximum temperature will be reached when the handle is turned in a counter-clockwise direction.
- Back-to-back installation is possible by reversing the pressure balancing cartridge.
- Water connection:
  - cold - RH
  - hot - LH

## General preparation

1. Cut off the excess blue box material, see fig. [1].
2. Seal the rough-in valve, see fig. [2].
3. Close the integrated service stops, see fig. [3].
4. Remove flush cap, see fig. [4].



## English

### Installation Type #1 19 843

If **both** rough-in outlets are used, you have to install a spout **with diverter**. If only **the lower** rough-in outlet is used, you have to install a spout **without diverter**.

1. Install control unit and secure with screws, see Fig. [5].
2. Close valve by turning the adapter (A) clockwise until it stops, see Fig. [6].
3. Open the hot and cold integrated service stops.
4. For installation of handle parts, see Fig. [7].
5. While installation observe the right mounting position.

If the pressure balancing valve is installed too deep, the fitting depth can be increased by 25mm or 1" with an extension set, Part No. 47 823, see page II.

### Note:

The preset maximum temperature will change if the inlet temperatures change or the setting of the water heater thermostat is altered or if the water inlet temperature is fluctuating.

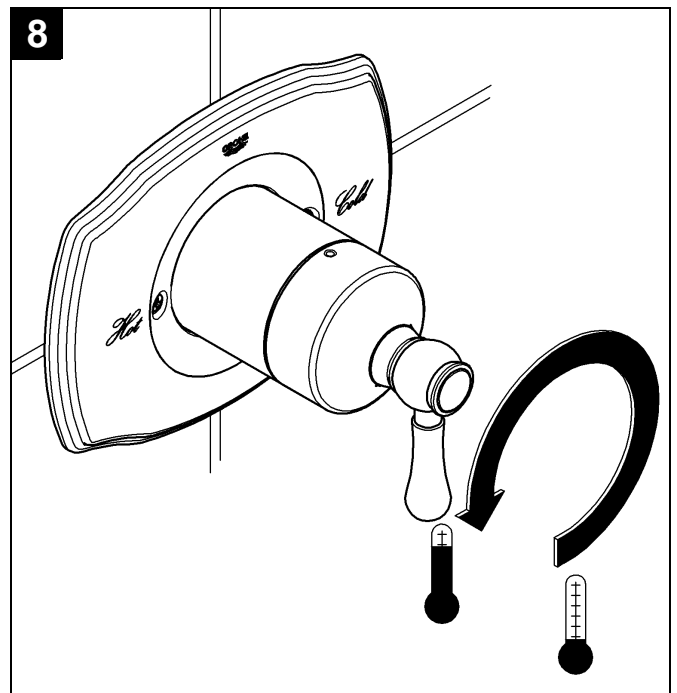
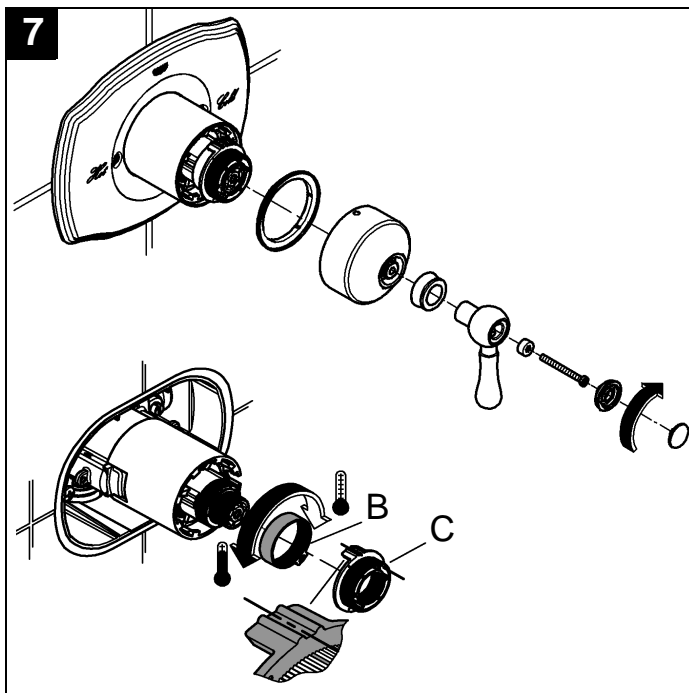
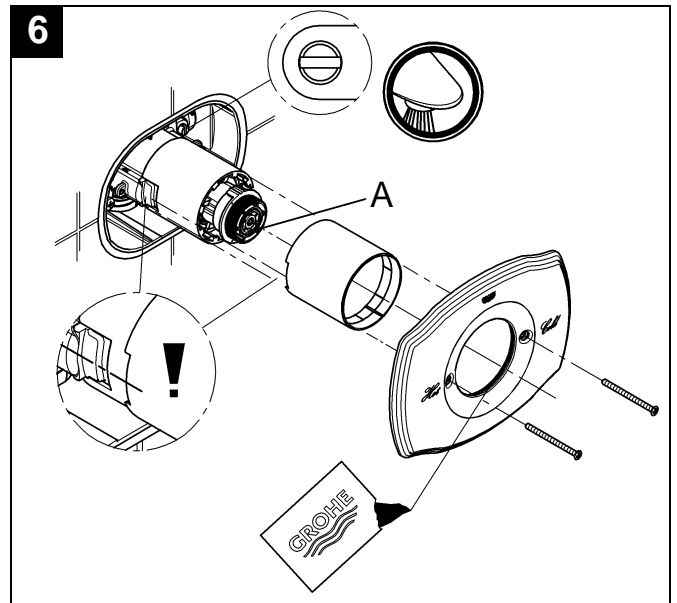
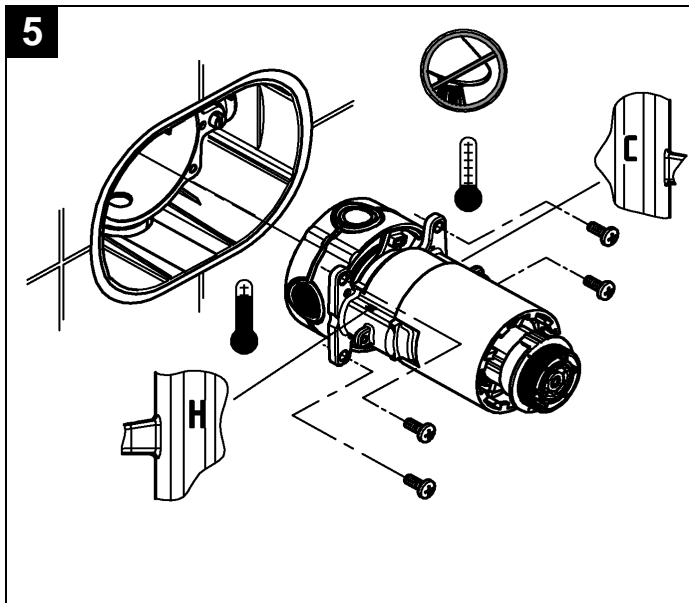
### Operation

Turn lever anti-clockwise:

- Open from cold to hot water flow, see Fig. [8].

The adjustable hot water limit stop (B) is factory set at a position to limit maximum outlet temperature to below the hot water supply temperature, see Fig. [7]. For installations where there is need to modify the limit temperature, remove the limit stop (B) and replace in a more clockwise position for colder water, or more counter-clockwise position for hotter water.

Observe the mounting position of stop (C).



## English

### Installation Type #1 19 843

If **both** rough-in outlets are used, you have to install a spout **with diverter**. If only **the lower** rough-in outlet is used, you have to install a spout **without diverter**.

1. Install control unit and secure with screws, see Fig. [5].
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3. Open the hot and cold integrated service stops.
4. For installation of handle parts, see Fig. [7].
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If the **pressure balancing valve is installed too deep**, the fitting depth can be increased by 25mm or 1" with an extension set, Part No. 47 823, see page II.

### Note:

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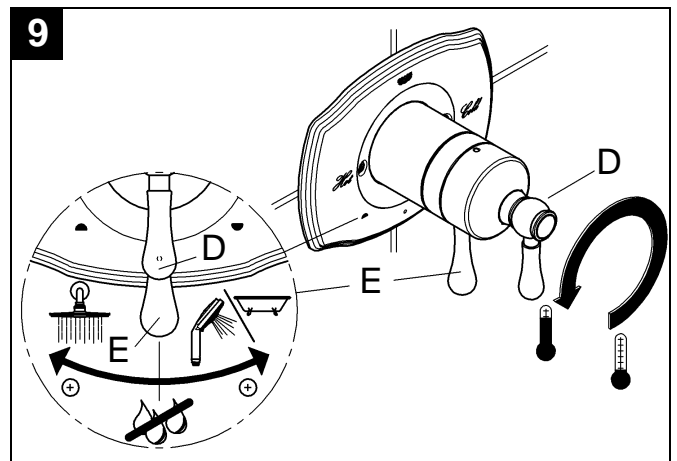
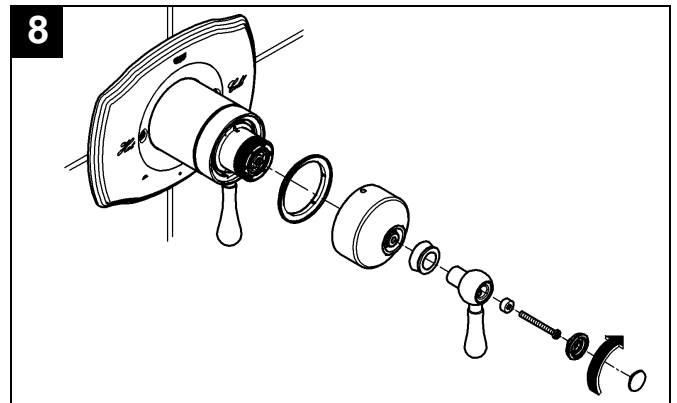
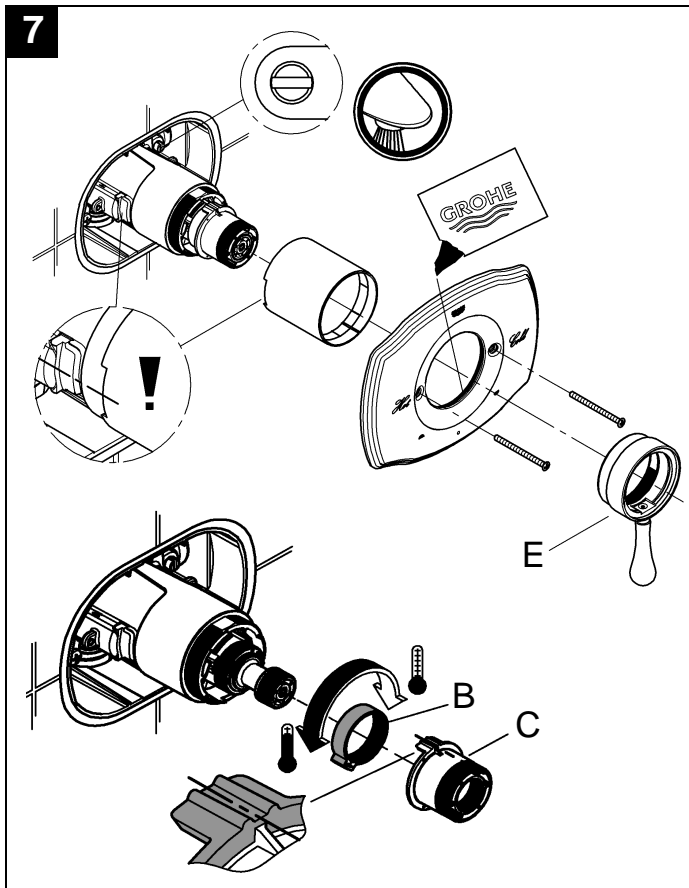
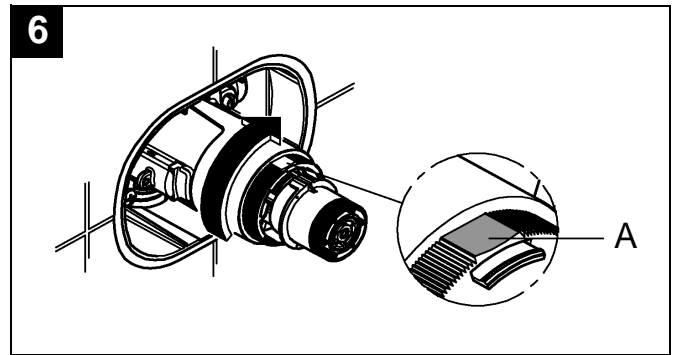
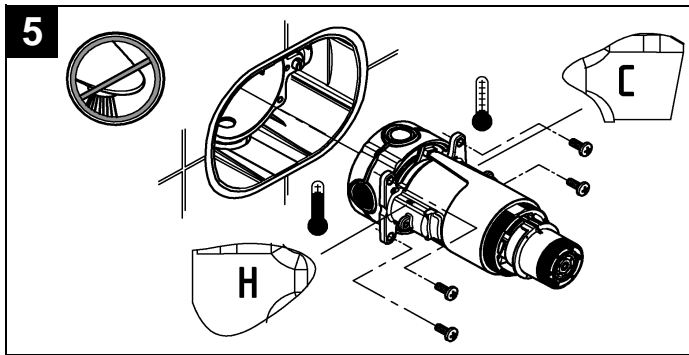
### Operation

Turn lever anti-clockwise:

- Open from cold to hot water flow, see Fig. [8].

The adjustable hot water limit stop (B) is factory set at a position to limit maximum outlet temperature to below the hot water supply temperature, see Fig. [7]. For installations where there is need to modify the limit temperature, remove the limit stop (B) and replace in a more clockwise position for colder water, or more counter-clockwise position for hotter water.

Observe the mounting position of stop (C).



## English

### Winterizing the system

It is recommended that the "pressure balancing cartridge" be removed from the valve body if the system is to be shut off during the winter.

### Maintenance

**Important note:** If the control unit is to be removed from the rough-in for servicing, first close the inlet stops then open the flow control to allow any internal pressure to be released from within the unit.

Inspect and clean all parts, replace if necessary and grease with special valve grease.

### Close the integrated service stops!

**I. Non return valves,** see Fig. [10a] or [10b] and [11].

Install in reverse order.

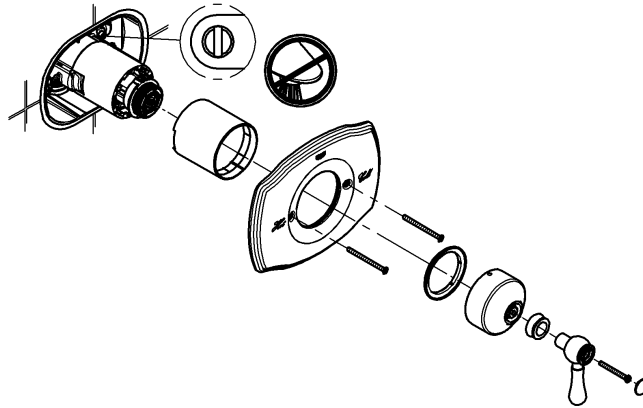
### Open the integrated service stops!

**Replacement parts,** see page II (\* = special accessories).

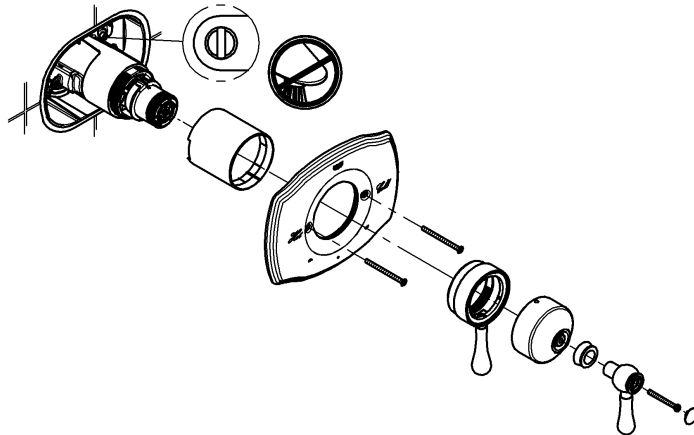
### Care

Instructions for care of this faucet will be found in the Limited Warranty supplement.

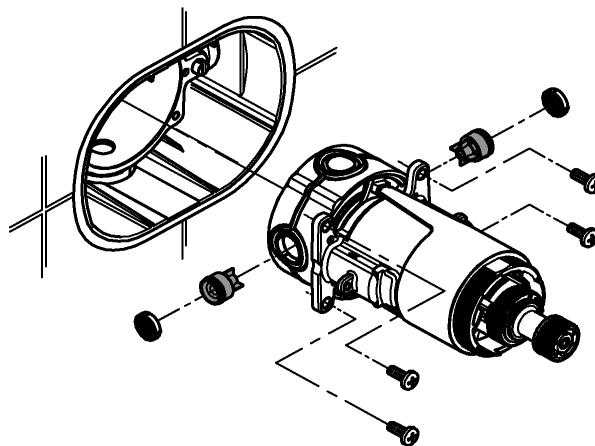
#### 10a Type #1 19 843



#### 10b Type #2 19 844



#### 11

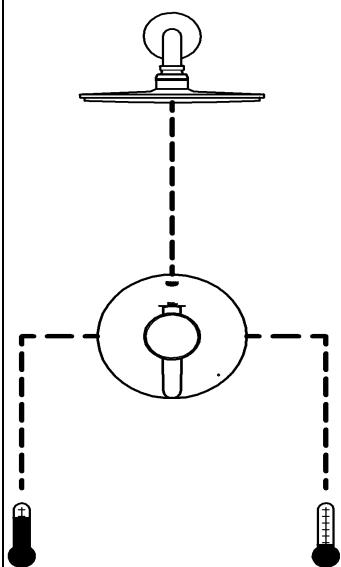




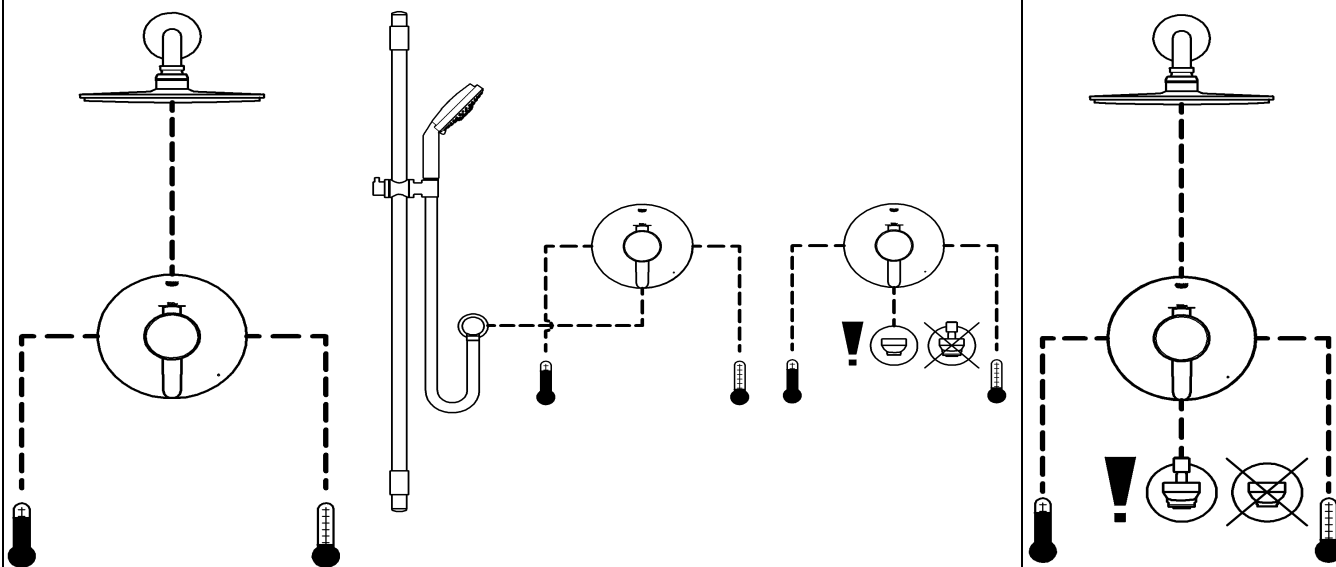
## Options d'installation avec divers types d'organes

### Équilibreur de pression de type #1 (usage unique)

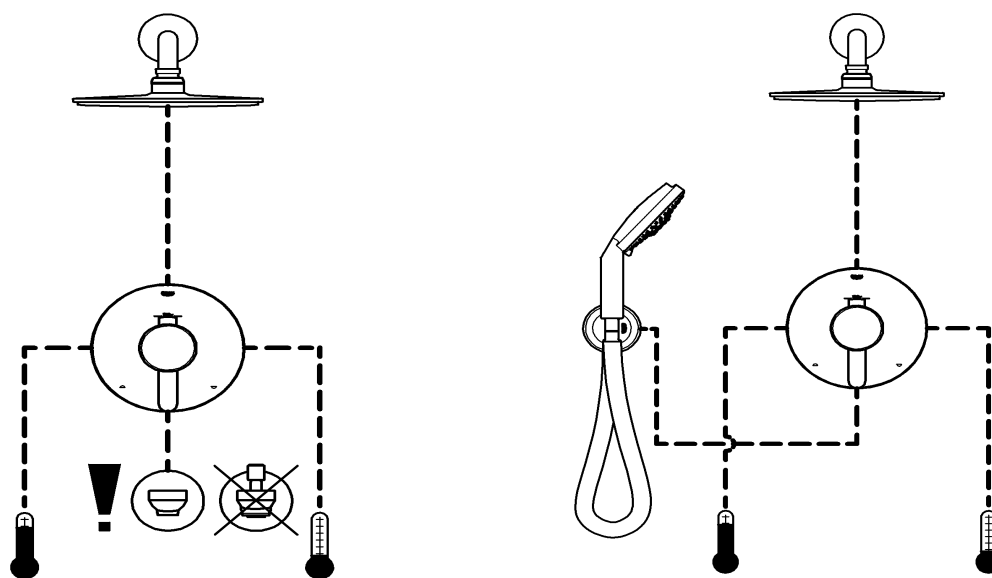
utilisation sans dérivation



avec utilisation d'une dérivation intégrée



### Équilibreur de pression de type #2 (inverseur à deux voies)



S.V.P. remettre ces instructions à l'utilisateur final de la robinetterie!

## Français

### Application générale

Ces équilibreurs de pression sont conçus pour une utilisation avec la robinetterie brute universelle GrohFlex™.

La planification de la tuyauterie est réalisée au moment de l'installation provisoire.

2 types d'EDP sont possibles.

Respecter les combinaisons possible, voir page 1.

### Caractéristiques techniques

- Robinet encastré de régulation de pression de baignoire et douche à poignée unique.
- Robinet d'arrêt intégral
- Les robinets de contrôle intégraux empêchent les écoulements parasites
- La cartouche à membrane de régulation de pression s'adapte automatiquement aux variations de pression d'entrée
- La cartouche limite la quantité d'eau chaude si la pression d'eau froide est insuffisante, afin d'éviter tout risque de brûlure
- Pression dynamique:
  - min 1 bar ou 14,5 psi
  - recommandée 1-5 bar ou 14,5 – 72,5 psi

Installer un réducteur de pression lorsque la pression est supérieure à 5 bar ou 72,5 psi

- Pression de service maxi 8,5 bar ou 125 psi
- Pression d'épreuve maxi 34,5 bar ou 500 psi
- Débits à une pression de 3 bars ou 45 psi
  - Type #1 19 843 23 l/min ou 6,1 gpm
  - Type #2 19 844
    - sortie du bas 20 l/min ou 5,3 gpm
    - sortie du haut 11 l/min ou 2,9 gpm
- Température
  - maxi. (entrée d'eau chaude) 80 °C ou 180 °F
  - Il est possible de tourner la poignée pour limiter la température maximale. La température maximale est atteinte lorsque la poignée est tournée dans le sens inverse des aiguilles d'une montre.
- L'installation inversée est possible en inversant la cartouche de régulation de pression.
- Raccord d'eau:
  - froide - à droite
  - chaude - à gauche

### Préparation générale

1. Couper l'excédent du matériel boîte bleue, voir fig. [1].
2. Installer le joint sur la robinetterie brute, voir fig. [2].
3. Fermer les robinets d'arrêt intégrés, voir fig. [3].
4. Enlever le capuchon ras, voir fig. [4].

