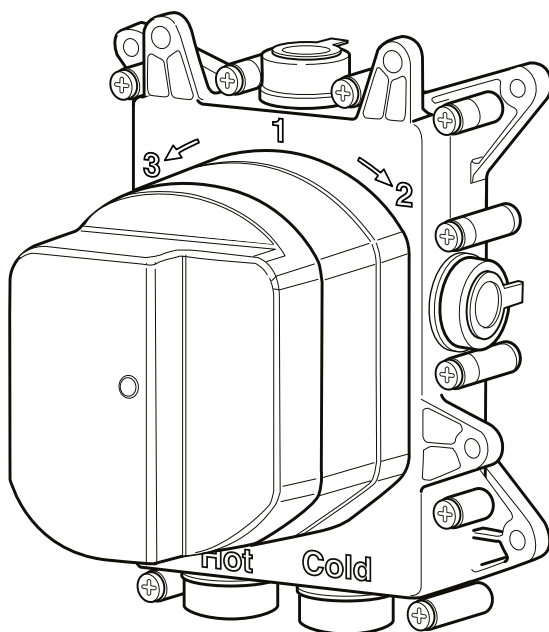
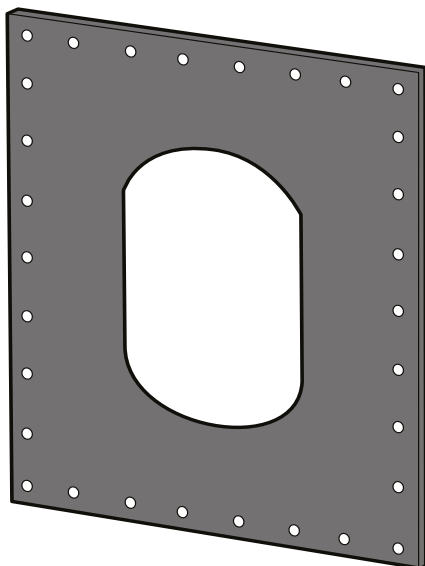
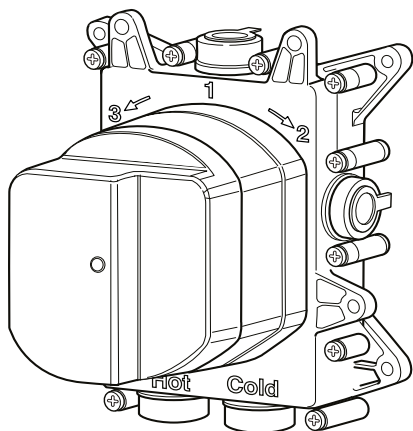




## CROSSBOX

### *Mounting Instructions*



Mounting instructions



*Pressure range min/max 0,5/5 bar*

*(in case of water pressure higher than 5 bar we recommend installing pressure reducers).*

*Recommended pressure 3 bar.*

*Operation:*

*Either with gas or electric accumulation boilers.*

*Centralised systems.*

***The product should only be installed by a suitably qualified plumber/installer.***

---

|                        |       |
|------------------------|-------|
| <i>Safety lock at:</i> | 41° C |
|------------------------|-------|

|                                  |      |
|----------------------------------|------|
| <i>Min. Working temperature:</i> | 3° C |
|----------------------------------|------|

|                          |       |
|--------------------------|-------|
| <i>Min. recommended:</i> | 15° C |
|--------------------------|-------|

|                                  |       |
|----------------------------------|-------|
| <i>Max. Working temperature:</i> | 70° C |
|----------------------------------|-------|

|                          |       |
|--------------------------|-------|
| <i>Max. recommended:</i> | 65° C |
|--------------------------|-------|

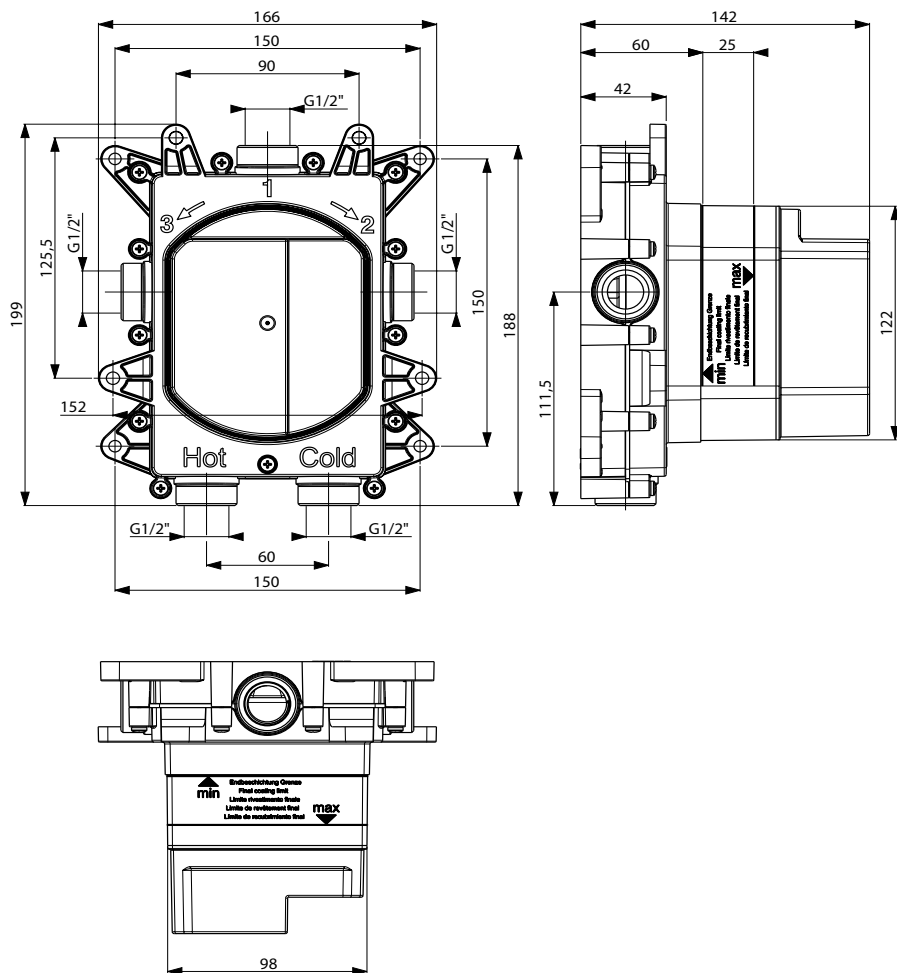
|                                         |       |
|-----------------------------------------|-------|
| <i>Recommended thermal differential</i> | 50° C |
|-----------------------------------------|-------|

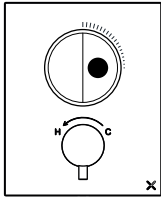
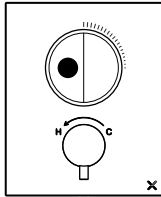
*Thermal disinfection is allowed.*

Safety system with flow stop in case of lack of one of the two waters.

---

***Warning: contact the plumber for the choice of the best water heating device.***

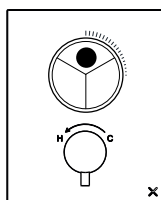


| Press. | FLOW RATE ( L/min )                                                               |      |                                                                                   |      |      |
|--------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|------|------|
|        | Push button 2 ways                                                                |      |                                                                                   |      |      |
|        |  |      |  |      |      |
|        | Exit 1                                                                            |      | Exit 2                                                                            |      |      |
|        | min.                                                                              | max. | min.                                                                              | max. |      |
|        | 0,5                                                                               | 1,5  | 7,5                                                                               | 1,5  | 7,5  |
|        | 1                                                                                 | 2,3  | 11,3                                                                              | 2,3  | 11,2 |
|        | 2                                                                                 | 3,5  | 16,5                                                                              | 3,5  | 16   |
|        | 3                                                                                 | 4,5  | 20,5                                                                              | 4,5  | 20   |
|        | 4                                                                                 | 5,5  | 23,7                                                                              | 5,2  | 22,8 |
|        | 5                                                                                 | 5,7  | 26,5                                                                              | 5,7  | 25,5 |

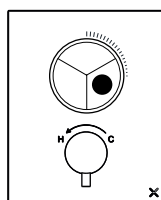
Press.

FLOW RATE ( L/min )

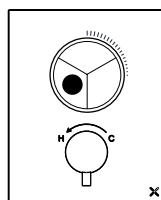
Push button 3 ways



Exit 1



Exit 2



Exit 3

bar

min. max.

min. max.

min. max.

0,5

1,8 8,1

1,8 7,7

1,8 7,7

1

2,7 11,8

2,6 11,5

2,6 11,5

2

3,9 16,8

3,9 16,7

3,9 16,7

3

4,8 20,7

4,8 20,5

4,8 20,5

4

5,5 24

5,5 23,7

5,5 23,7

5

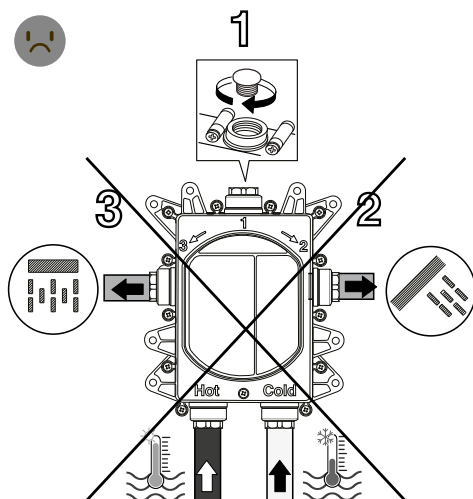
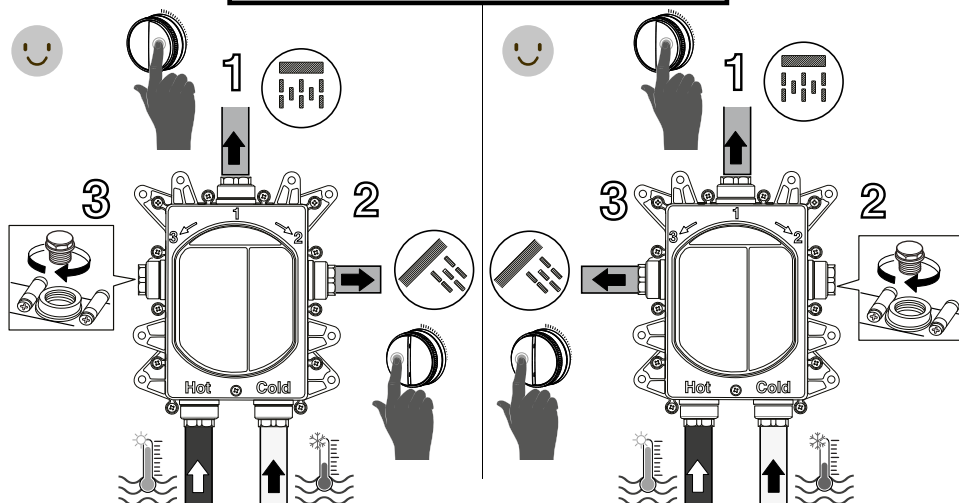
6,2 26,7

6,2 26,6

6,2 26,6

**2 WAYS - ONLY PUSH VERSION**

**ATTENTION:**  
indications valid only  
for PUSH VERSION!



**3 WAYS - ONLY PUSH VERSION**

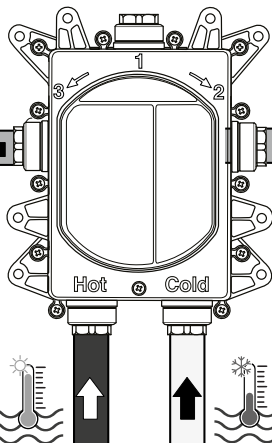
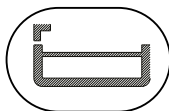
**ATTENTION:**  
indications valid only  
for PUSH VERSION!



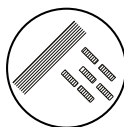
1

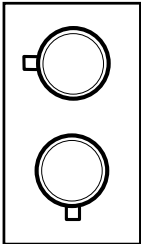
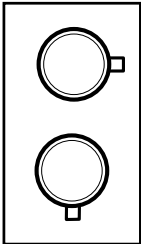
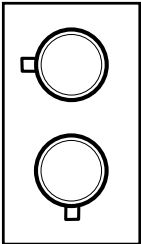
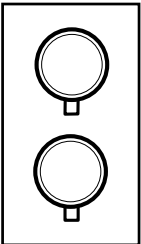


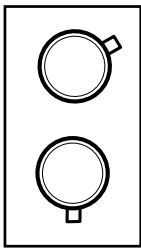
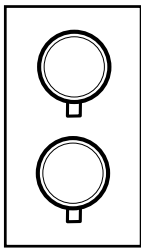
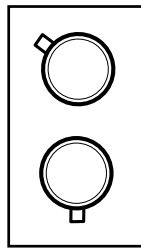
3



2

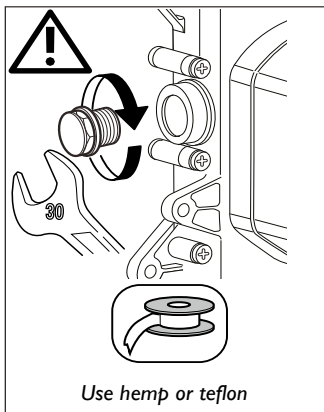


| Press. |                                                                                   | FLOW RATE ( L/min ) |                                                                                   |                                                                                   |                                                                                    |
|--------|-----------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| bar    | Term. 1 way                                                                       |                     | Term. 2 way                                                                       |                                                                                   |                                                                                    |
|        |  |                     |  |  |  |
|        | Exit 1/2/3                                                                        |                     | Exit 2                                                                            | Exit 3                                                                            | Mix                                                                                |
|        | 8,2                                                                               |                     | 8,2                                                                               | 8,2                                                                               | 9,2                                                                                |
|        | 11,7                                                                              |                     | 11,7                                                                              | 11,7                                                                              | 13,2                                                                               |
|        | 16,7                                                                              |                     | 16,4                                                                              | 16,4                                                                              | 18,7                                                                               |
|        | 20,7                                                                              |                     | 20                                                                                | 20                                                                                | 22,9                                                                               |
|        | 24                                                                                |                     | 23                                                                                | 23                                                                                | 26,4                                                                               |
|        | 26,6                                                                              |                     | 25,8                                                                              | 25,8                                                                              | 29,5                                                                               |

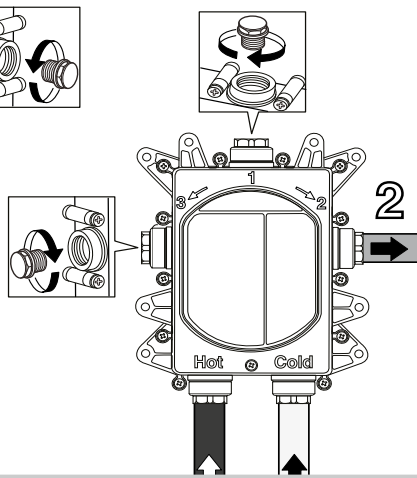
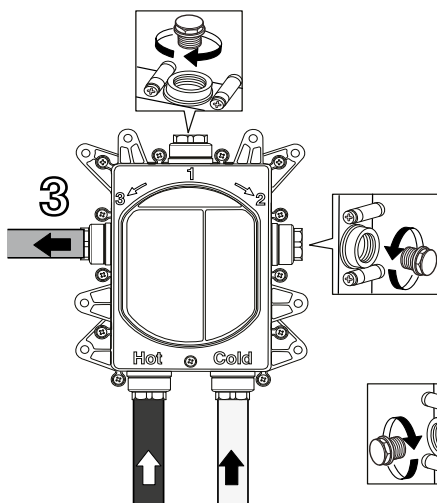
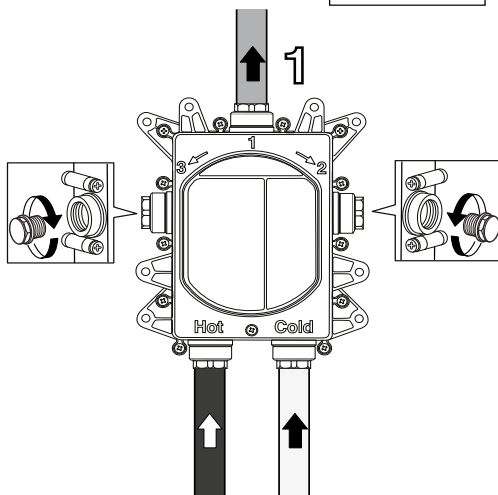
| Press. | FLOW RATE ( L/min )                                                               |                                                                                   |                                                                                   |
|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|        | Term. 3 ways                                                                      |                                                                                   |                                                                                   |
|        |  |  |  |
|        | Exit 1                                                                            | Exit 2                                                                            | Exit 3                                                                            |
|        | bar                                                                               |                                                                                   |                                                                                   |
|        | 0,5                                                                               | 9,4                                                                               | 8,1                                                                               |
|        | 1                                                                                 | 13,4                                                                              | 11,6                                                                              |
|        | 2                                                                                 | 19,2                                                                              | 16,6                                                                              |
|        | 3                                                                                 | 23,7                                                                              | 20,5                                                                              |
|        | 4                                                                                 | 27,4                                                                              | 23,8                                                                              |
|        | 5                                                                                 | 30,5                                                                              | 26,6                                                                              |



**ATTENTION:**  
indications valid only  
for **OTHER VERSIONS!**

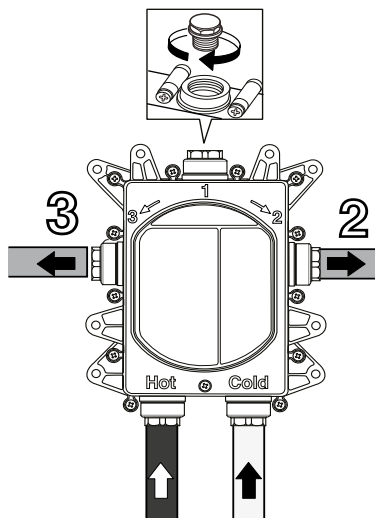
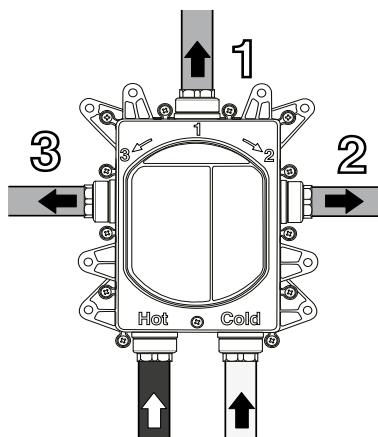


**1 way**



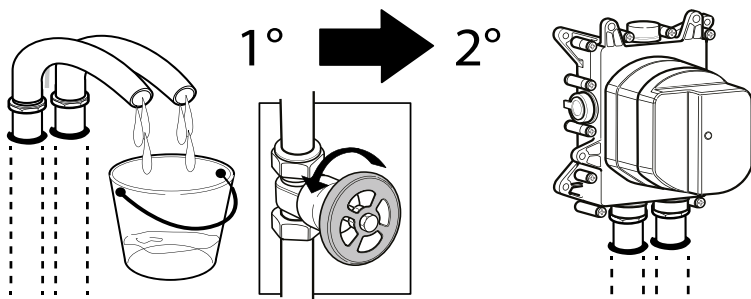
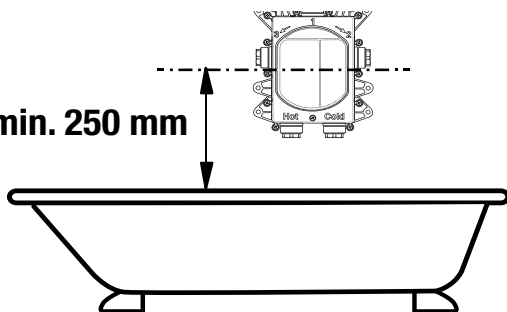


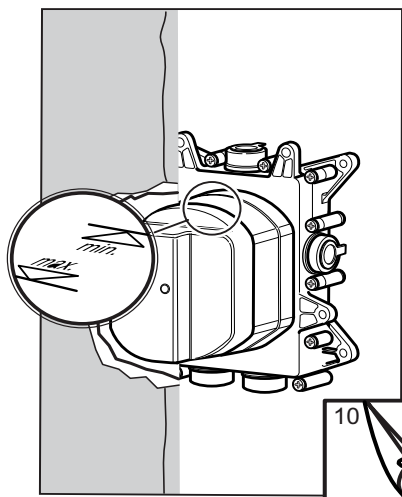
**ATTENTION:**  
indications valid only  
for **OTHER VERSIONS!**

**2 ways****3 ways**

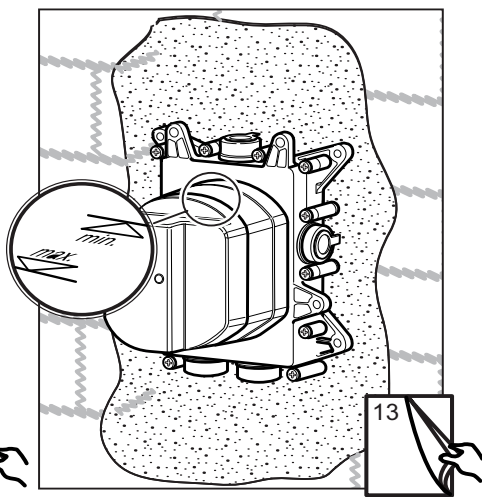


min. 250 mm

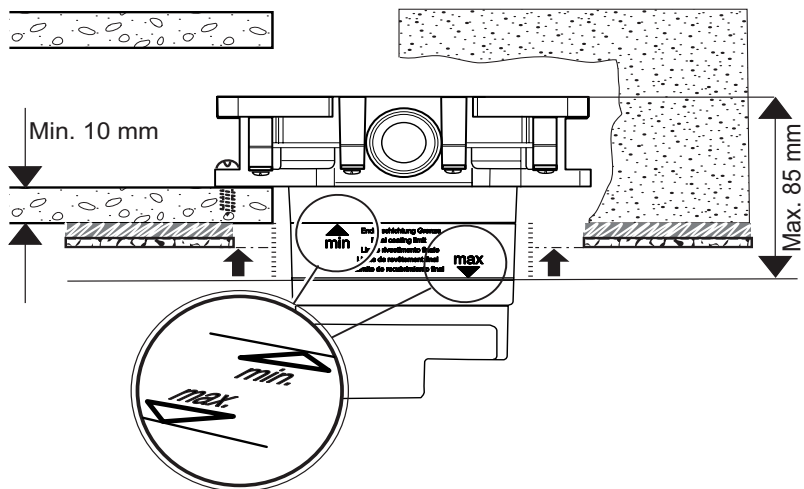


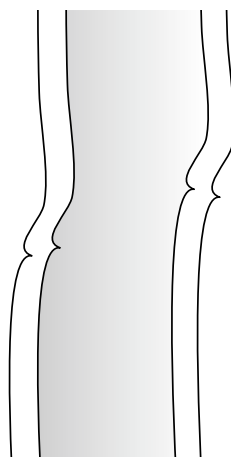
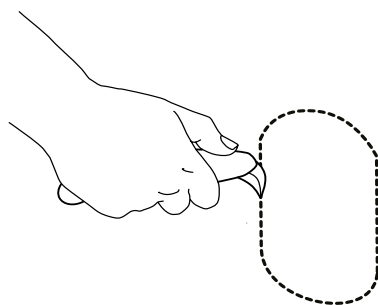
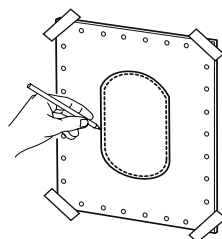
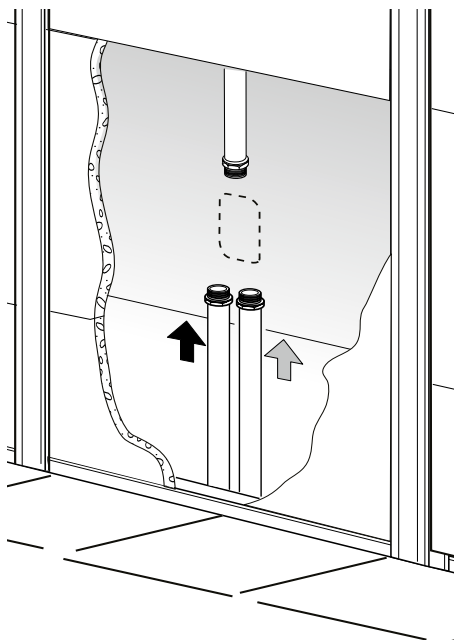


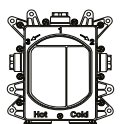
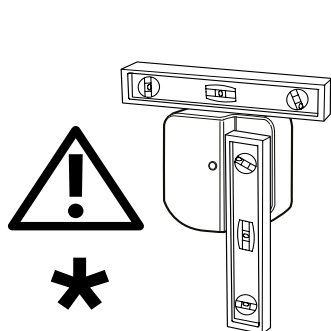
Mounting on plasterboard wall



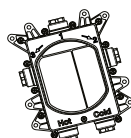
Wall mounting



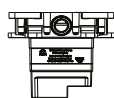




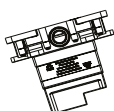
OK



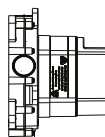
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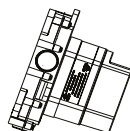
OK



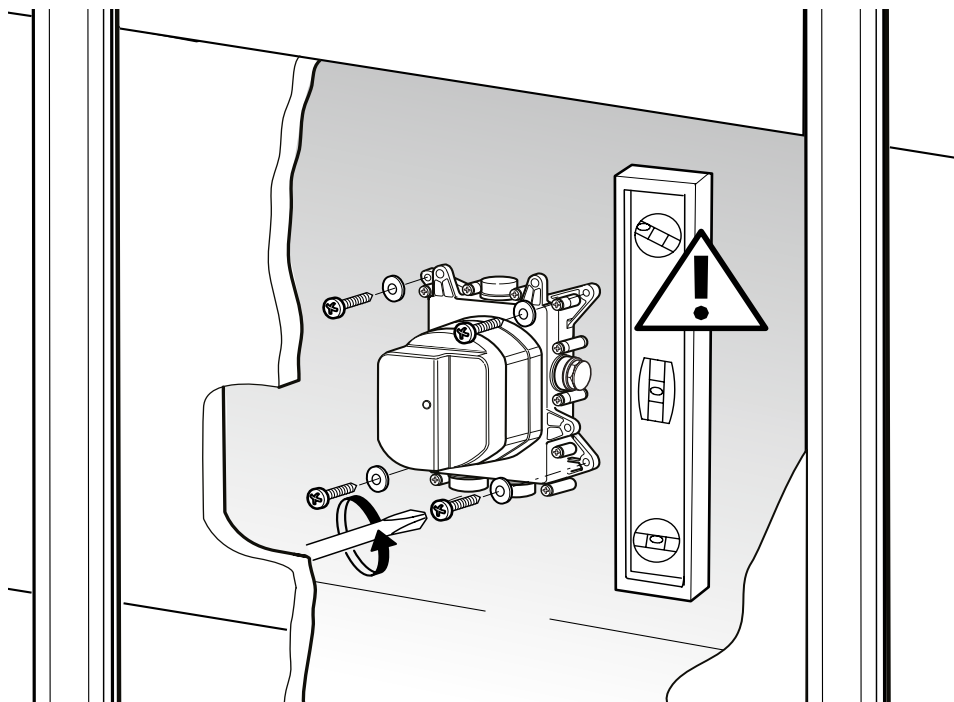
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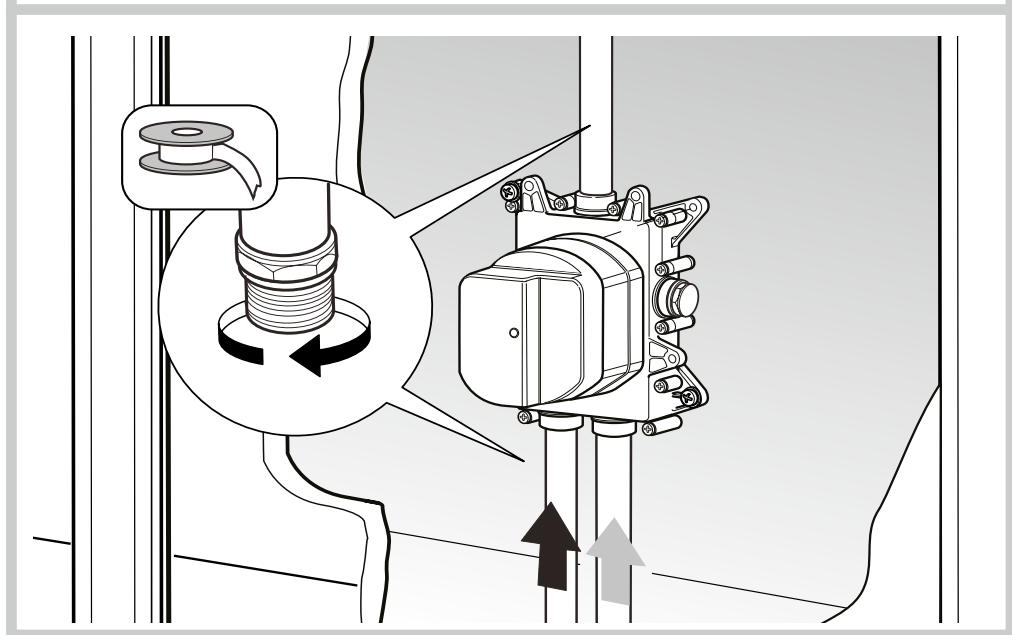
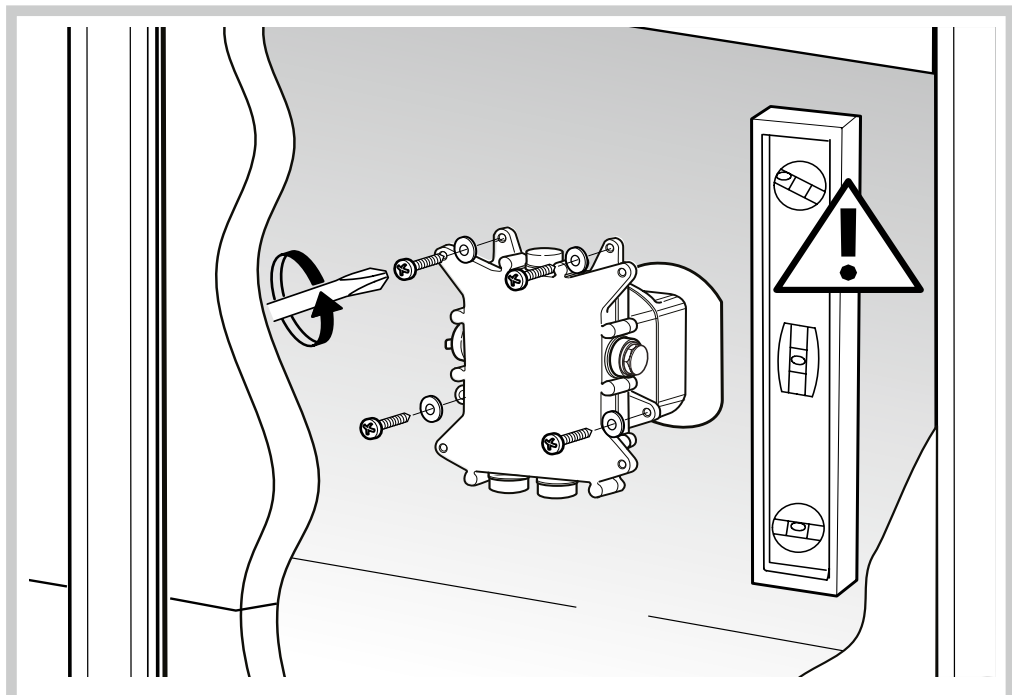


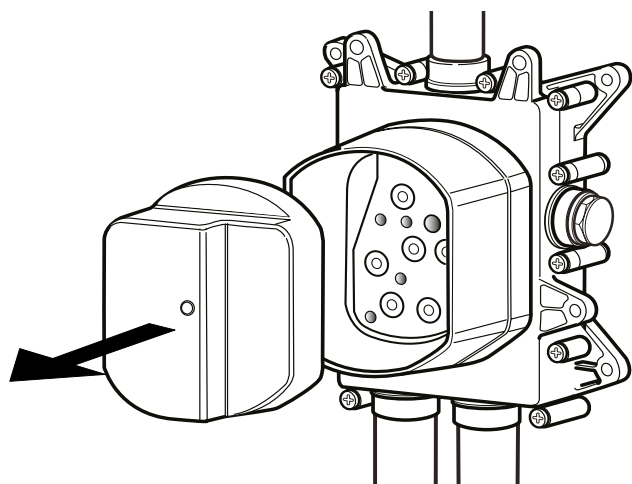
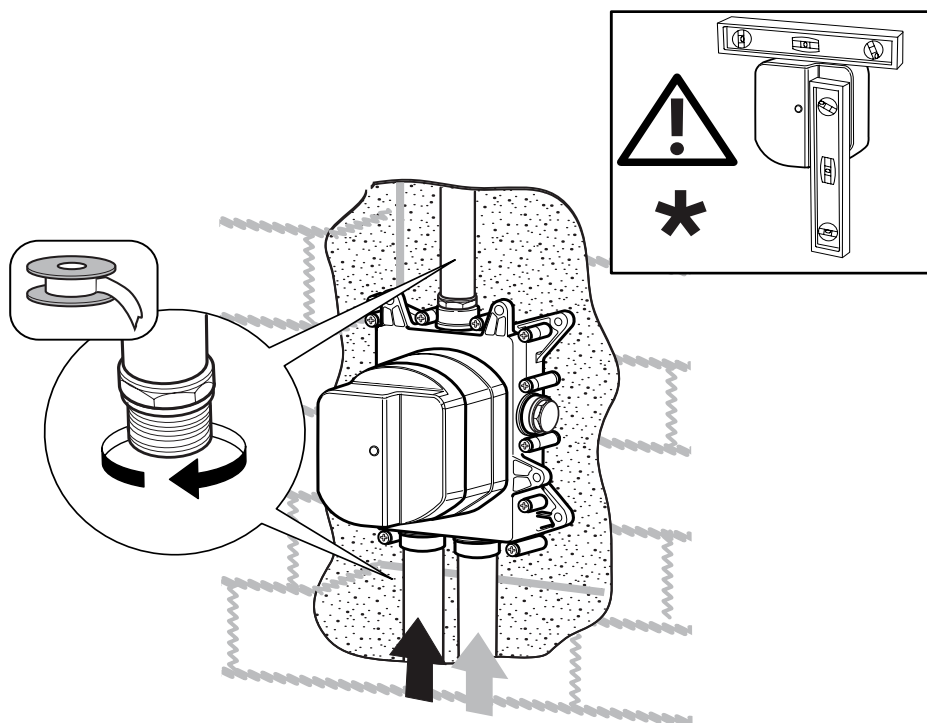
OK

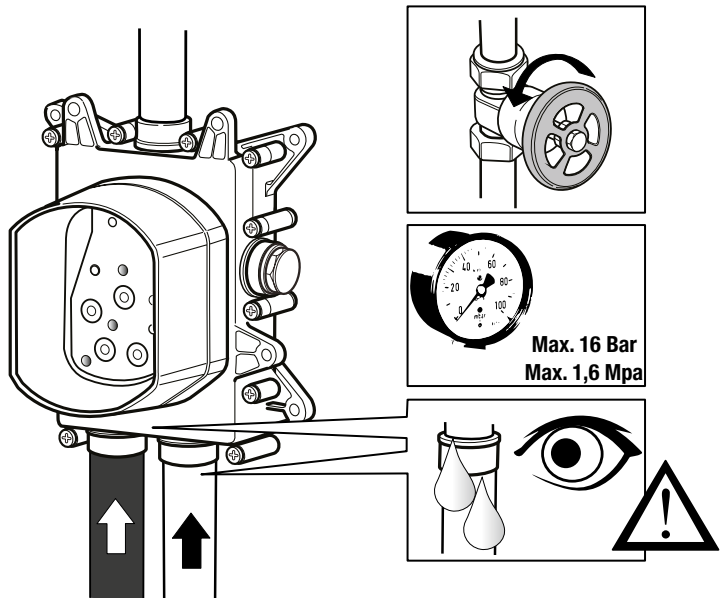
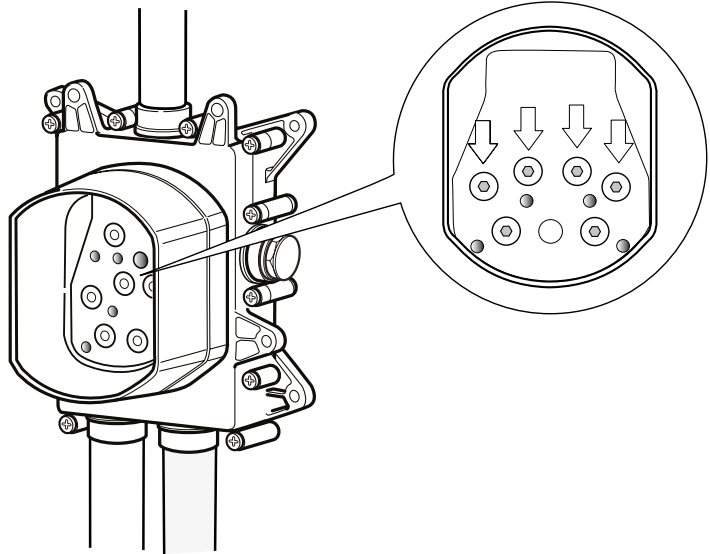


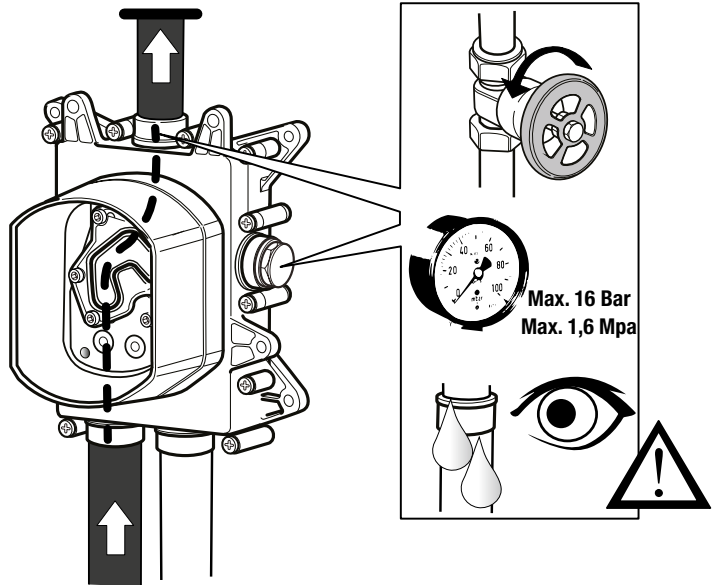
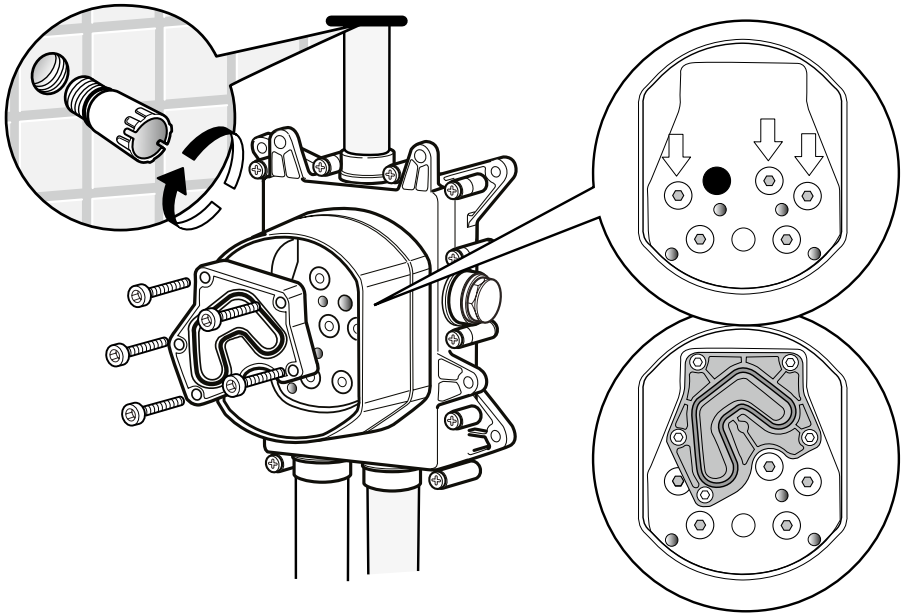
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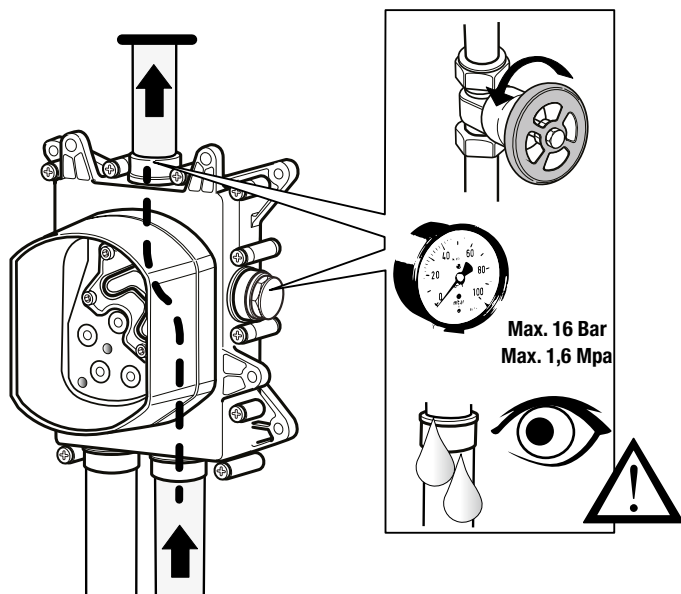
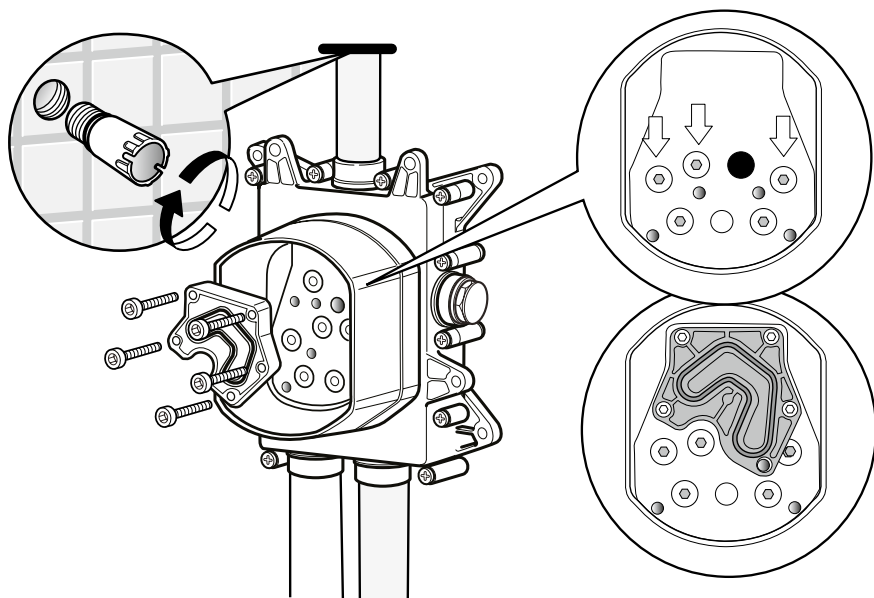


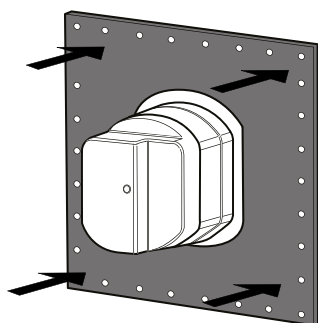
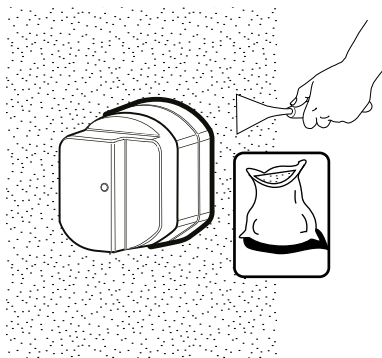
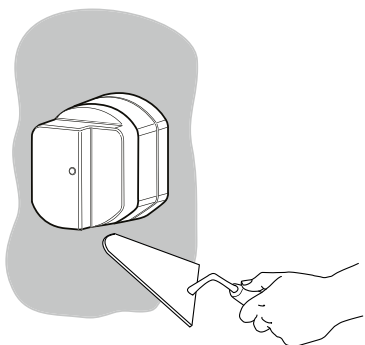






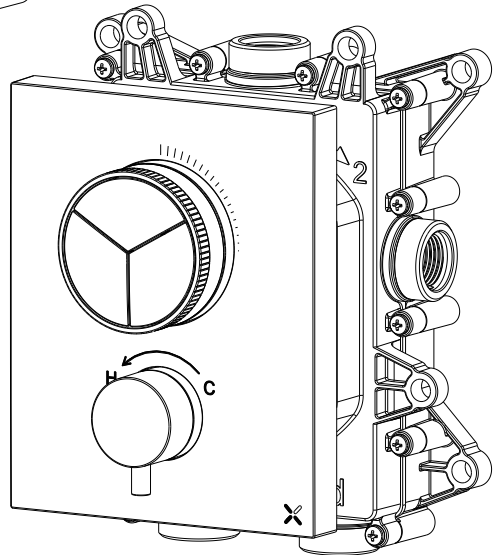
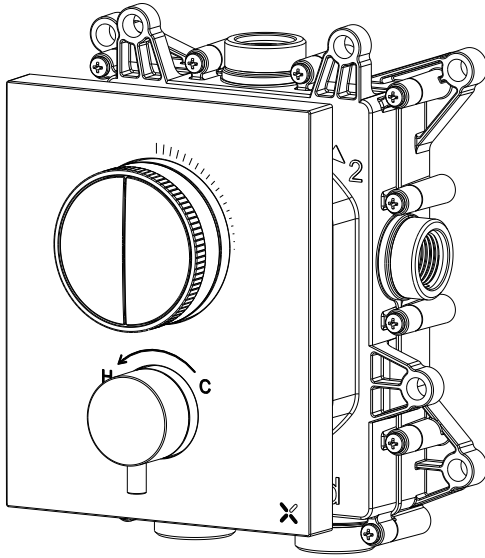






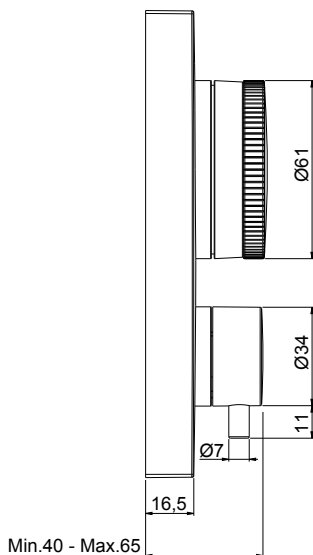
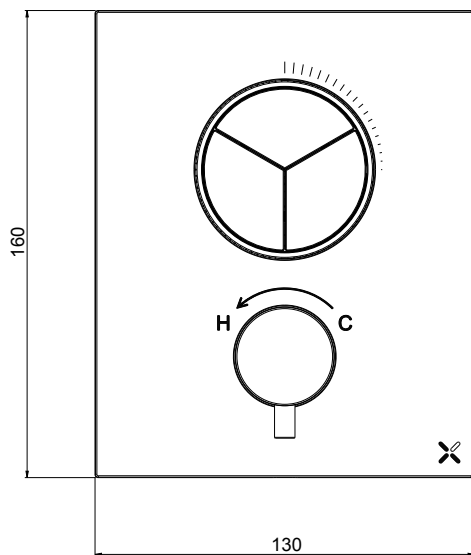
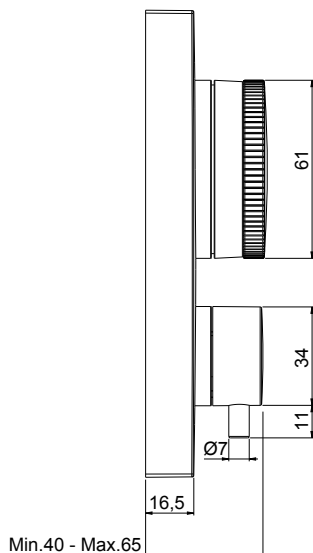
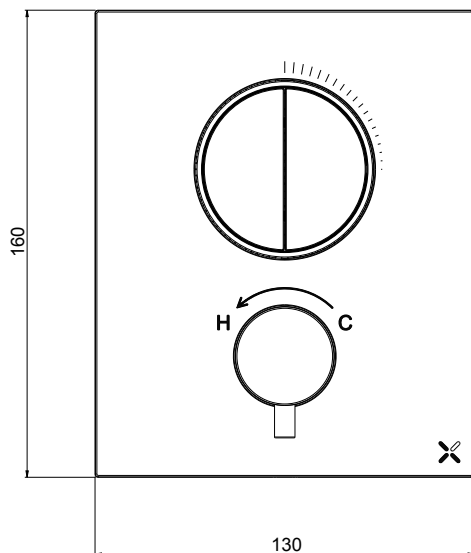






## Completion Concealed Box

### Mounting Instructions



Pressure range min/max 0,5/5 bar  
(in case of water pressure higher than 5 bar we recommend installing pressure reducers).

Recommended pressure 3 bar.

Operation:

Either with gas or electric accumulation boilers.

Centralized systems.

**The product should only be installed by a suitably qualified plumber/installer.**

---

Safety lock at: 41°

Min. Working temperature: 3°C

Min. recommended: 15°C

Max. Working temperature: 70°C

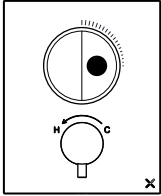
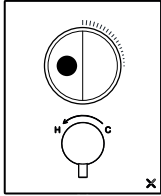
Max. recommended: 65°C

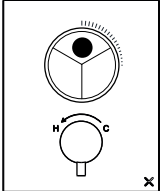
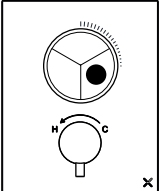
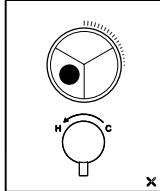
Recommended thermal differential 50°C

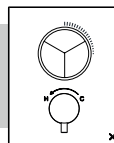
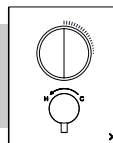
Thermal disinfection is allowed. Safety system with flow stop in case of lack of one of the two waters.

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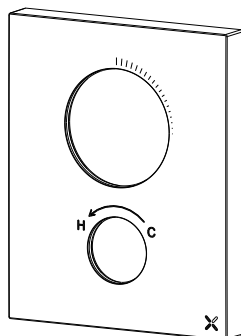
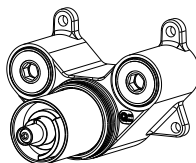
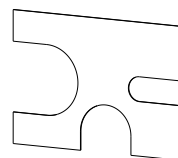
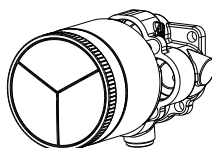
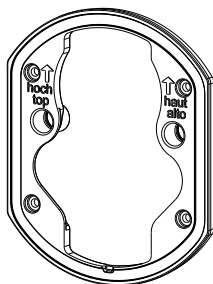
**Warning: contact the plumber for the choice of the best water heating device.**

| Press. | FLOW RATE ( L/min )                                                                         |      |                                                                                             |      |
|--------|---------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------|------|
| bar    | Push button 2 ways                                                                          |      |                                                                                             |      |
|        | <br>Exit 1 |      | <br>Exit 2 |      |
|        | min.                                                                                        | max. | min.                                                                                        | max. |
|        | 1,5                                                                                         | 7,5  | 1,5                                                                                         | 7,5  |
|        | 2,3                                                                                         | 11,3 | 2,3                                                                                         | 11,2 |
|        | 3,5                                                                                         | 16,5 | 3,5                                                                                         | 16   |
|        | 4,5                                                                                         | 20,5 | 4,5                                                                                         | 20   |
| 4      | 5,5                                                                                         | 23,7 | 5,2                                                                                         | 22,8 |
| 5      | 5,7                                                                                         | 26,5 | 5,7                                                                                         | 25,5 |

| Press. | FLOW RATE ( L/min )                                                               |             |                                                                                   |      |                                                                                   |      |
|--------|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|------|
| bar    | Push button 3 ways                                                                |             |                                                                                   |      |                                                                                   |      |
|        |  |             |  |      |  |      |
|        | Exit 1                                                                            |             | Exit 2                                                                            |      | Exit 3                                                                            |      |
|        | min.                                                                              | max.        | min.                                                                              | max. | min.                                                                              | max. |
|        | 0,5                                                                               | 1,8    8,1  | 1,8                                                                               | 7,7  | 1,8                                                                               | 7,7  |
|        | 1                                                                                 | 2,7    11,8 | 2,6                                                                               | 11,5 | 2,6                                                                               | 11,5 |
|        | 2                                                                                 | 3,9    16,8 | 3,9                                                                               | 16,7 | 3,9                                                                               | 16,7 |
|        | 3                                                                                 | 4,8    20,7 | 4,8                                                                               | 20,5 | 4,8                                                                               | 20,5 |
|        | 4                                                                                 | 5,5    24   | 5,5                                                                               | 23,7 | 5,5                                                                               | 23,7 |
|        | 5                                                                                 | 6,2    26,7 | 6,2                                                                               | 26,6 | 6,2                                                                               | 26,6 |

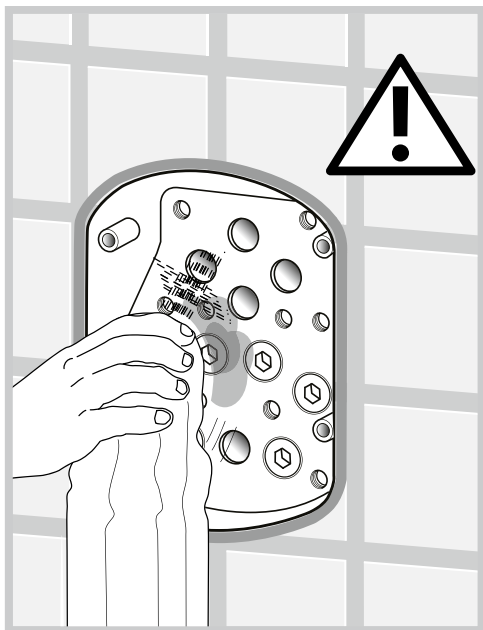
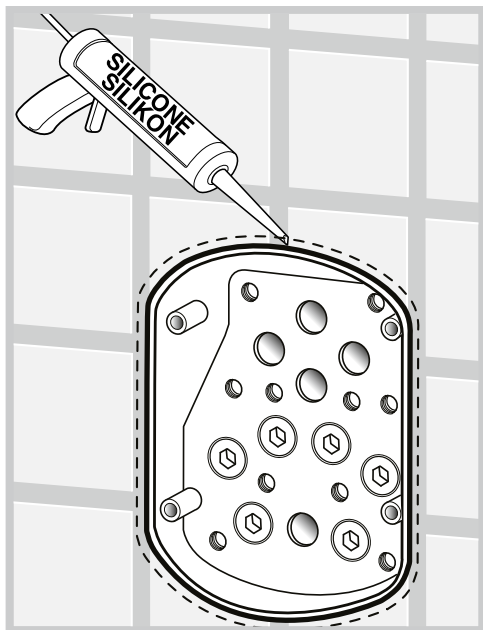
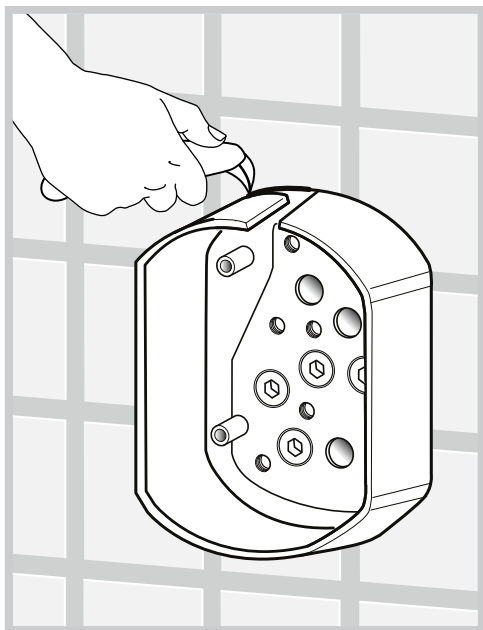
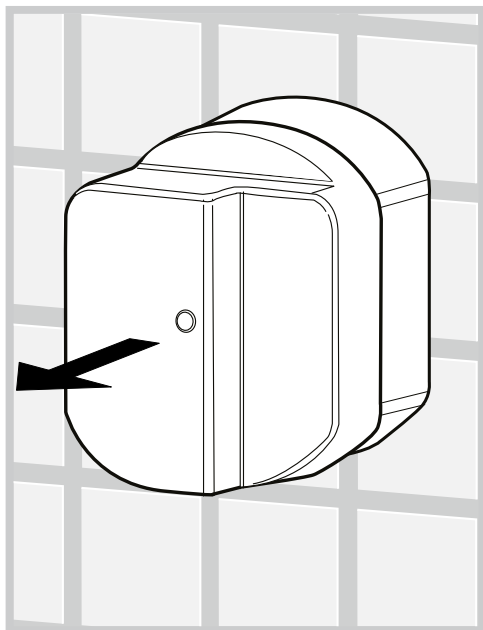
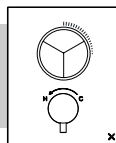
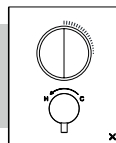


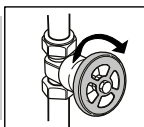
## THERMOSTATIC 2-3 WAYS



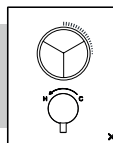
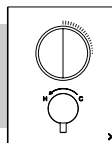
Mounting instructions



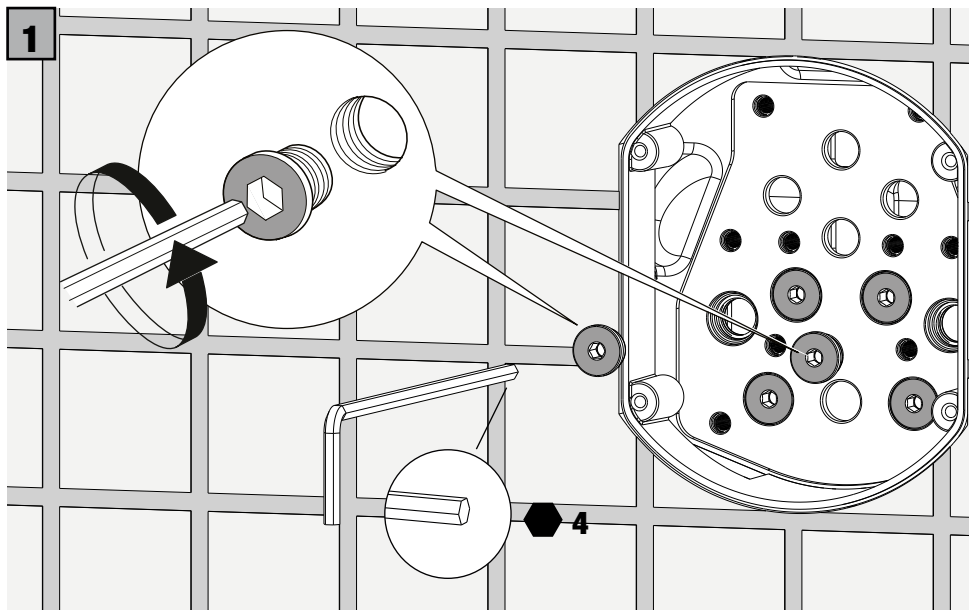




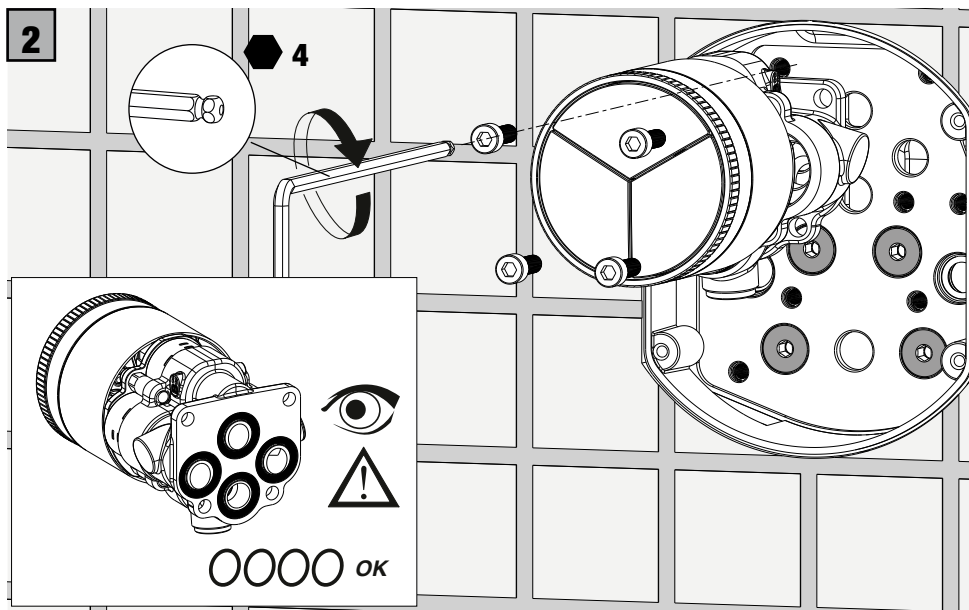
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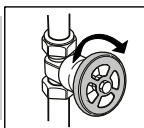


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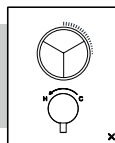
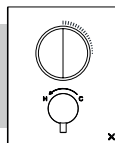


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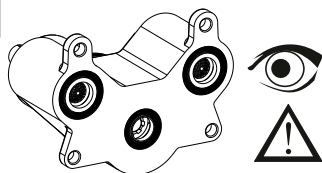




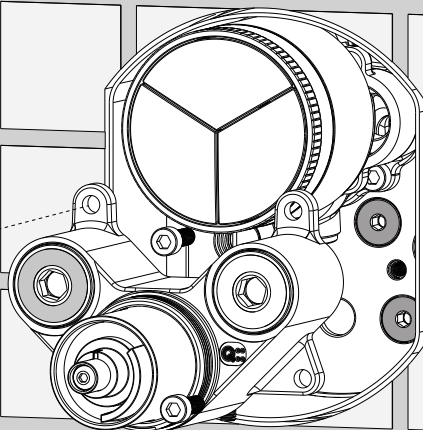
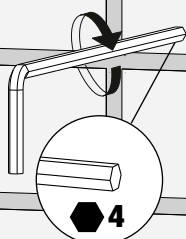
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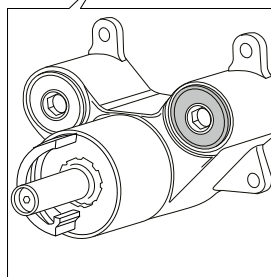
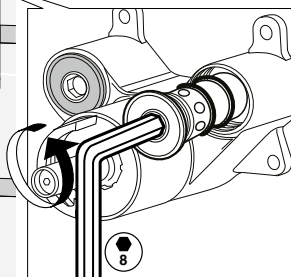
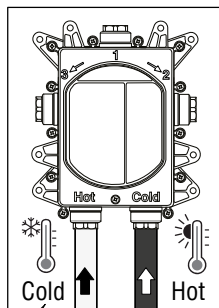
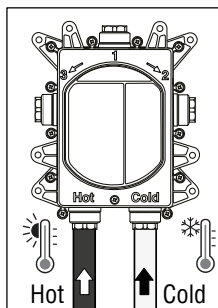
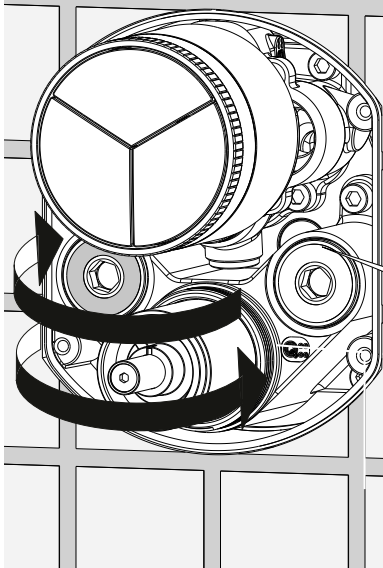
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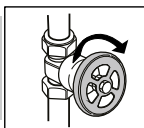


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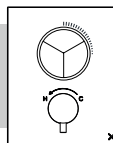
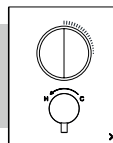


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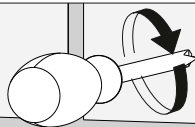
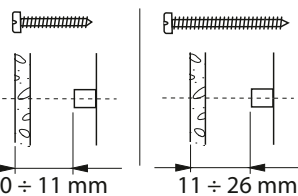




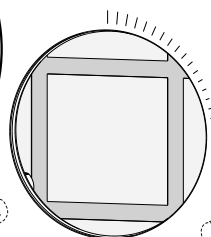
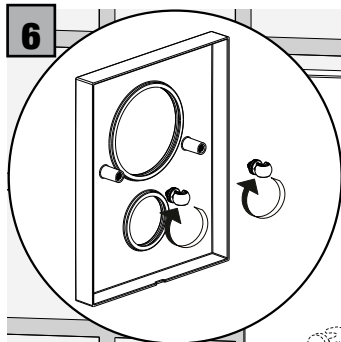
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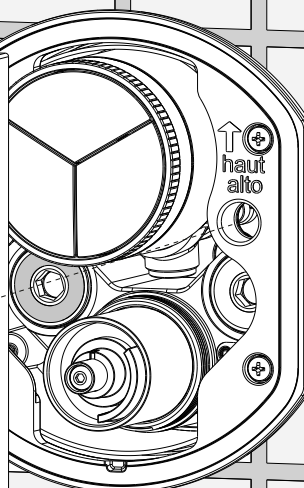
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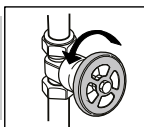


SOAP

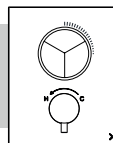
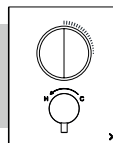


Run liquid soap over the O-rings to facilitate plate's insertion

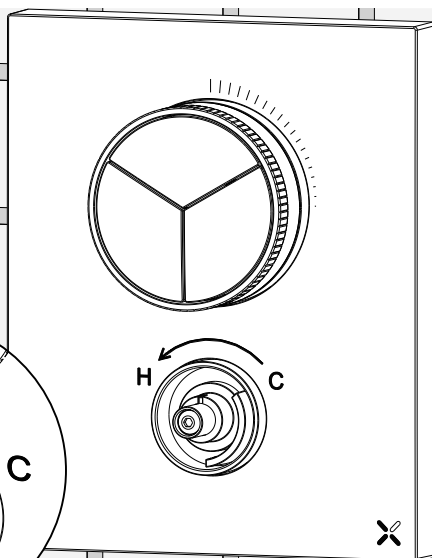
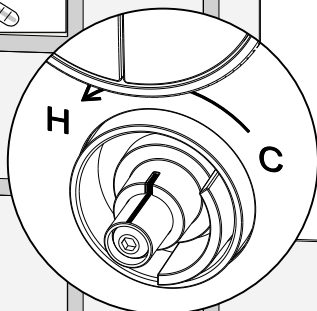
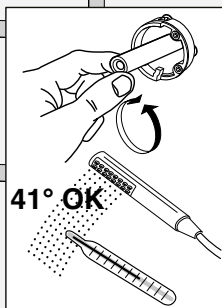
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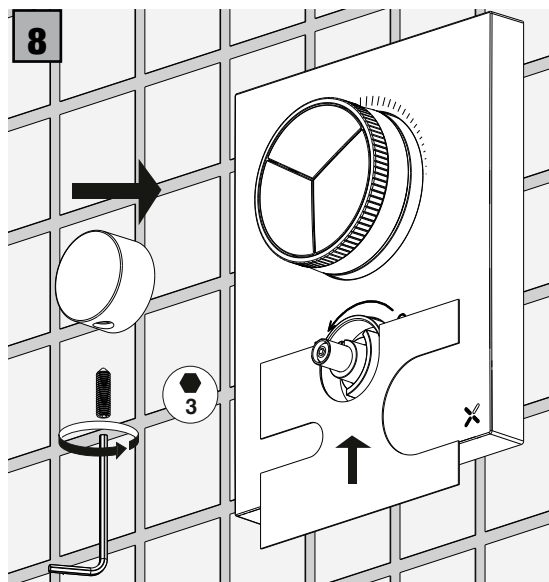
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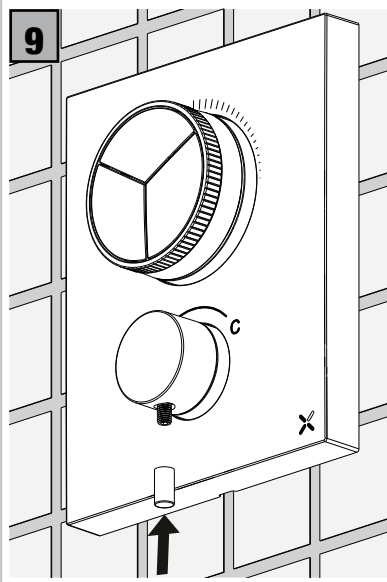
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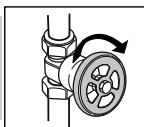


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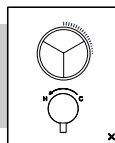
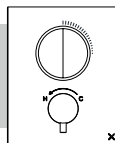


9

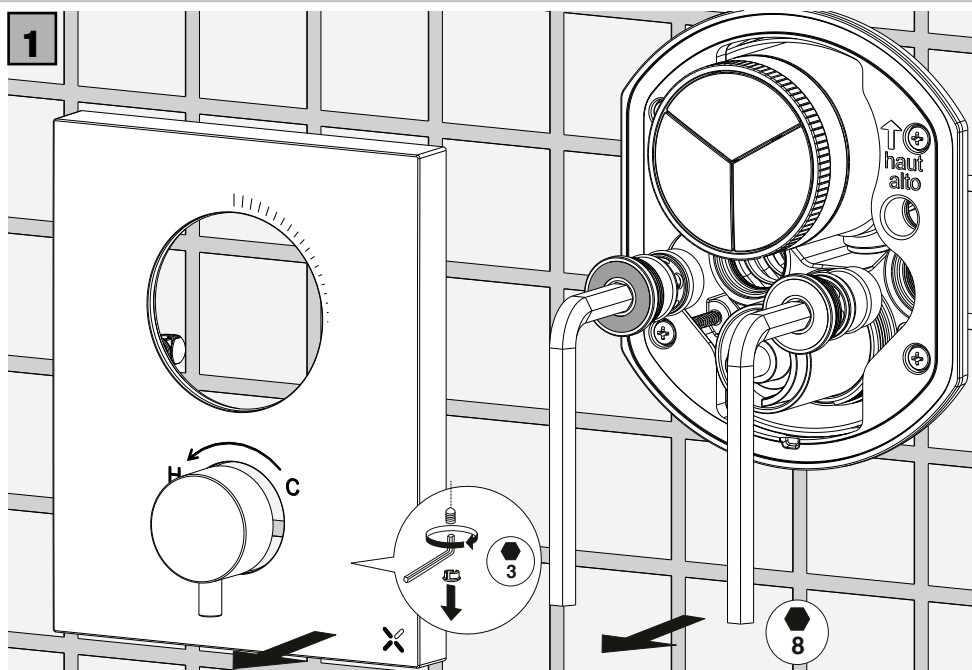




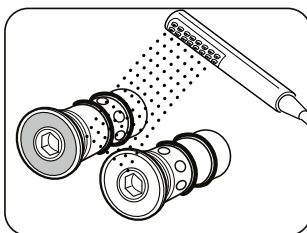
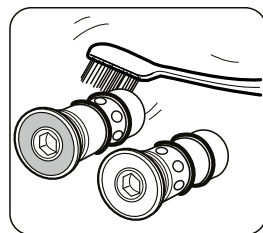
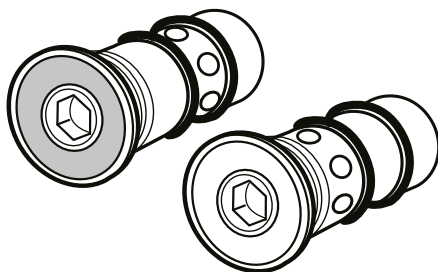
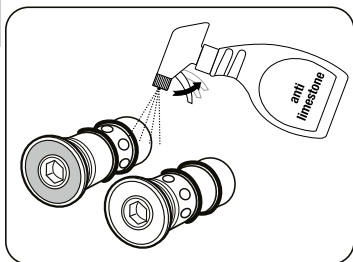
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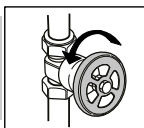


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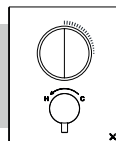
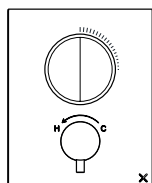


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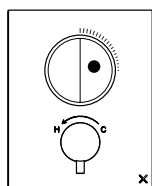




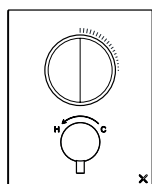
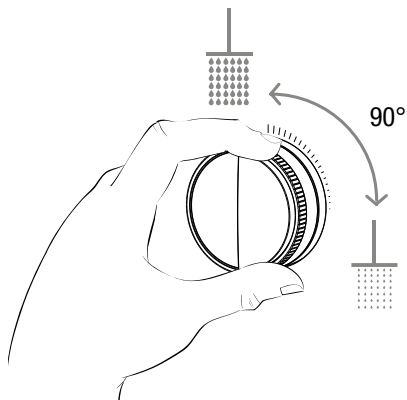
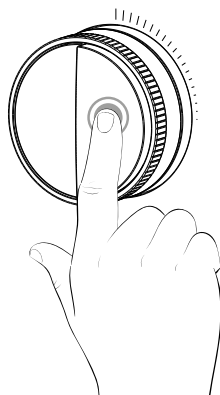
OPEN

**THERMOSTATIC 2 WAYS**

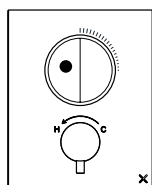
stop



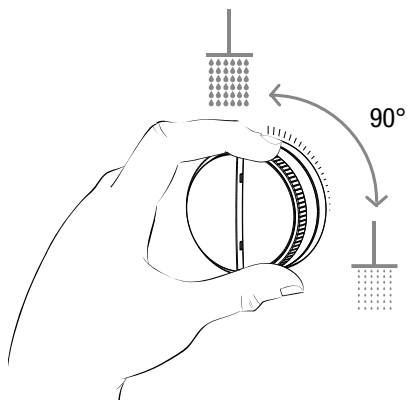
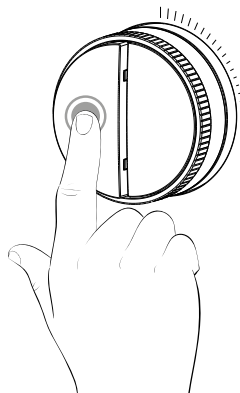
1 way

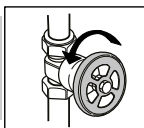


stop

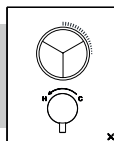


2 way

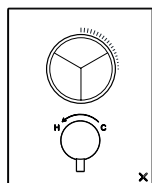




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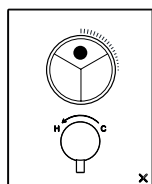
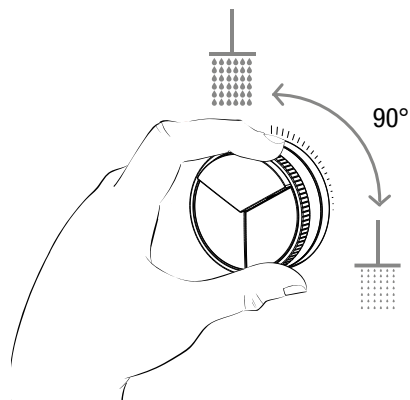
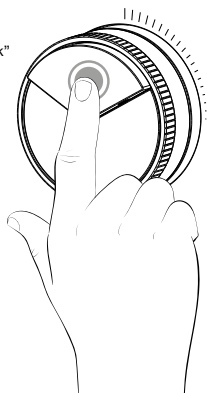


## THERMOSTATIC 3 WAYS

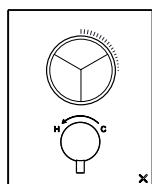


stop

"click"

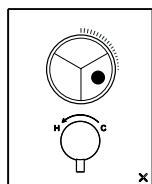
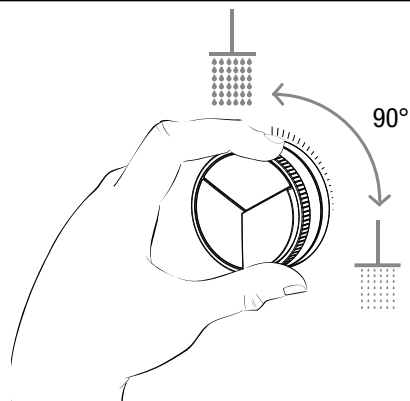
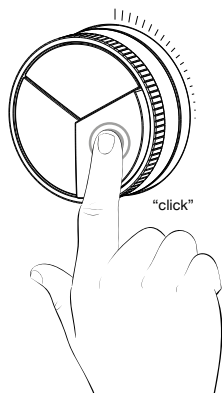


1 way

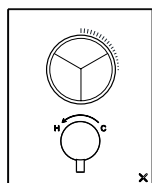


stop

"click"

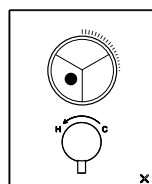
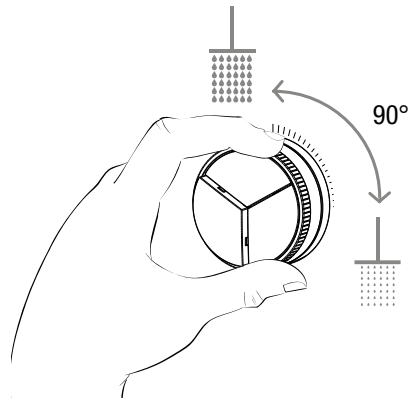
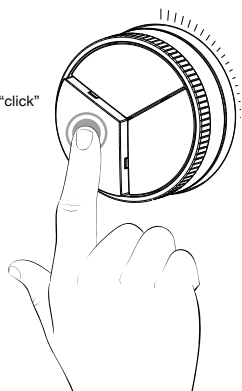


2 way



stop

"click"



3 way

**EN I CLEANING**

Clean surfaces using only water or neutral detergents and dry with a soft cloth.

Never use abrasive or corrosive detergents or products containing hydrochloric acid, phosphoric acid, ammonia or bleach.

Do not use sponges or abrasive cloths.

It is recommended to clean the surfaces periodically, in order to not create situations of excessive dirt which is difficult to eliminate.

**ATTENTION:** the use of not-recommended products may irreparably deteriorate surfaces.

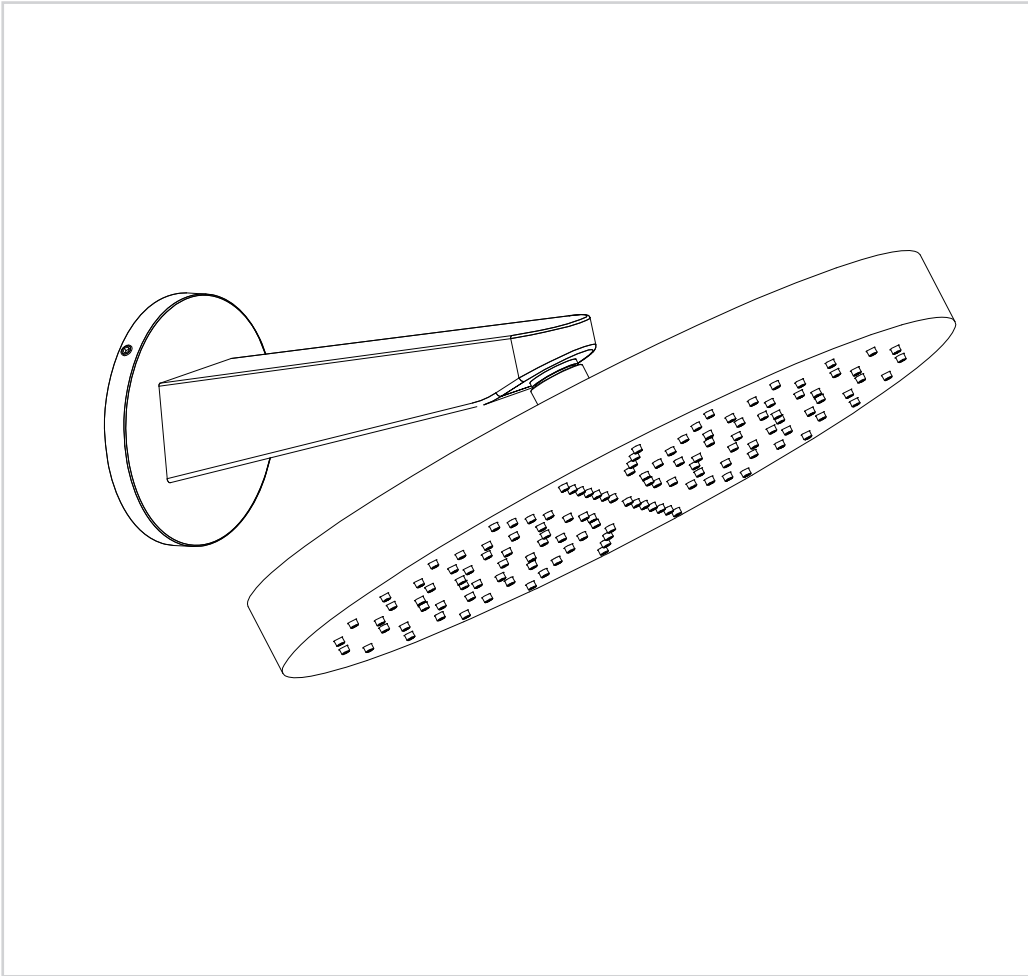


# REVIVE

Stainless Steel Shower Head Wall Mounted 300 x 300

**PRODUCT CODES:**

FH337

**IMPORTANT INFORMATION BEFORE YOU START**

**Please read carefully and keep this information for further reference.**

All products manufactured and supplied by Crosswater are safe provided they are installed, used correctly and receive regular maintenance in accordance with these instructions. If you are in any doubt about your ability to install this product safely you must employ the services of an experienced qualified plumber.

These fittings need to be installed in accordance with, and meet the requirements of the Water Supply (Water Fittings) Regulations 1999 and Scottish Byelaws 2004.

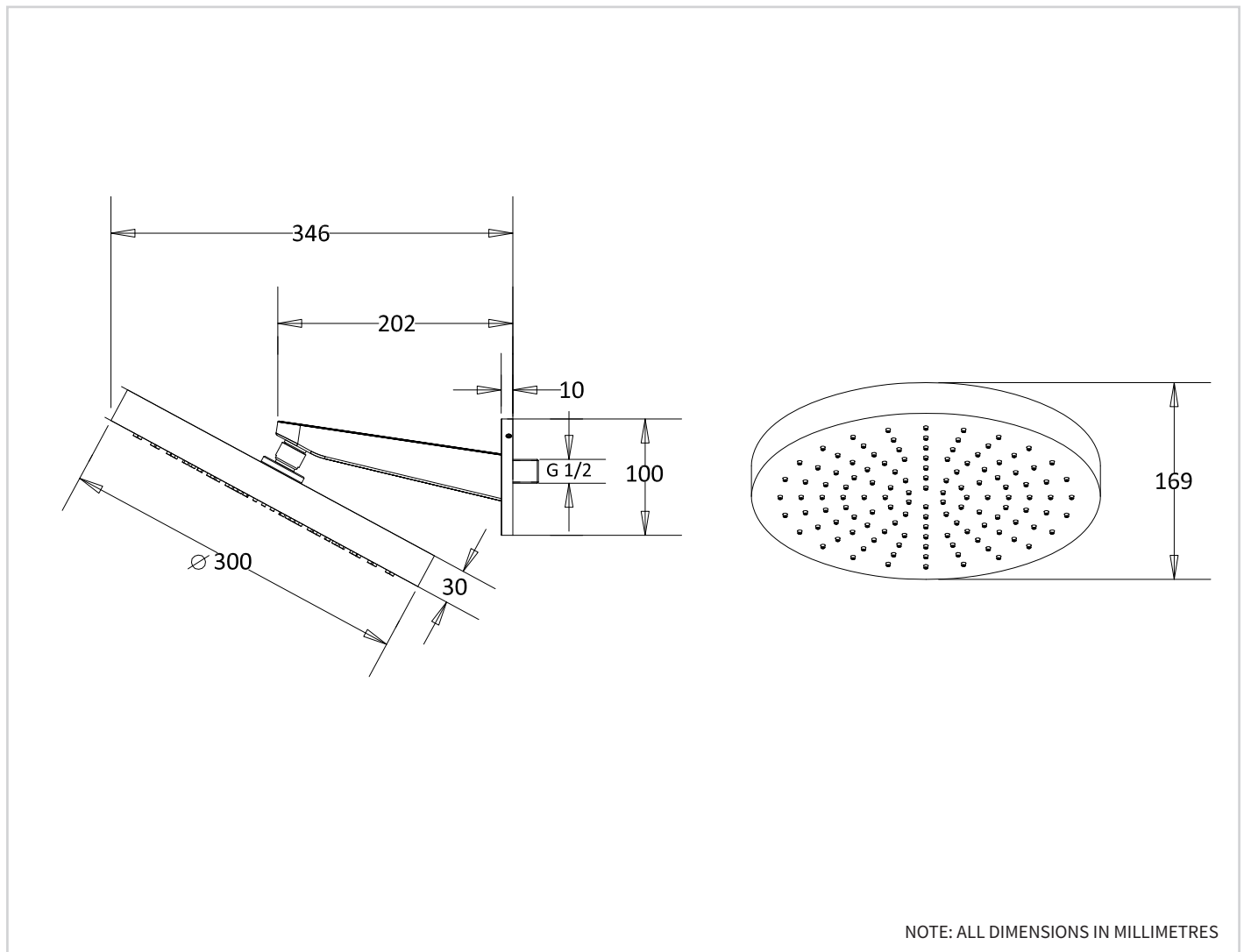
Operating pressure range: Minimum 0.5 bar, Maximum 5.0 bar. Maximum static pressure: 10.0 bar.

Note: Nominally equal (balanced) inlet supply pressures are recommended for optimum performance with mixer taps.

Designed to comply with BS EN 817 for single hole mixers, for water systems of type 2 general technical specifications and to be used within systems designed to BS 6700. BS 6700 recommends the temperature of stored water should never exceed 65°C.

A stored water temperature of 60°C is considered sufficient to meet all normal requirements and will minimise the build up of lime scale in hard water areas. If the fitting is installed at low pressure (tank fed), then the minimum distance from the highest installed position of the outlet to the underside of the cold tank should be at least 2 metres to ensure adequate performance.

## DIMENSIONS



### IMPORTANT INFORMATION

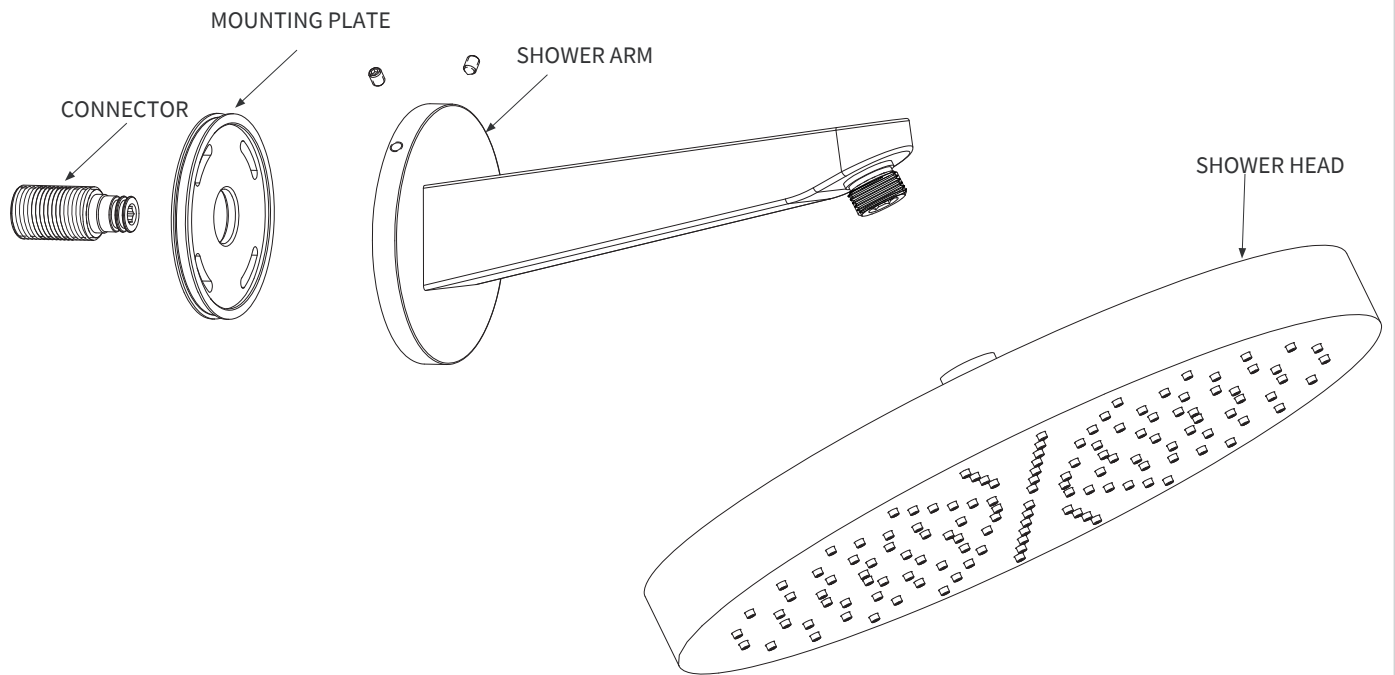
**Please read carefully and keep this information for further reference.**

These shower mixers should be installed in compliance with the Water Regulations.

Where the supplies are unbalanced, i.e. Hot water from cylinder tank / cold from the mains, approved check valves must be fitted in the supply pipes.

For further details contact your Local Water Authority.

## COMPONENTS



## BEFORE YOU START

### Important Pre-Installation Notes

Remove all packaging and check the fitting for damage before starting installation.

**Warning:** Before starting any installation please consider the following: before drilling into walls, check that there are no hidden electrical wires, cables or water supply pipes. This can be checked with the aid of an electronic detector.

If power tools are used do not forget to: -

Wear eye protection

Unplug equipment after use

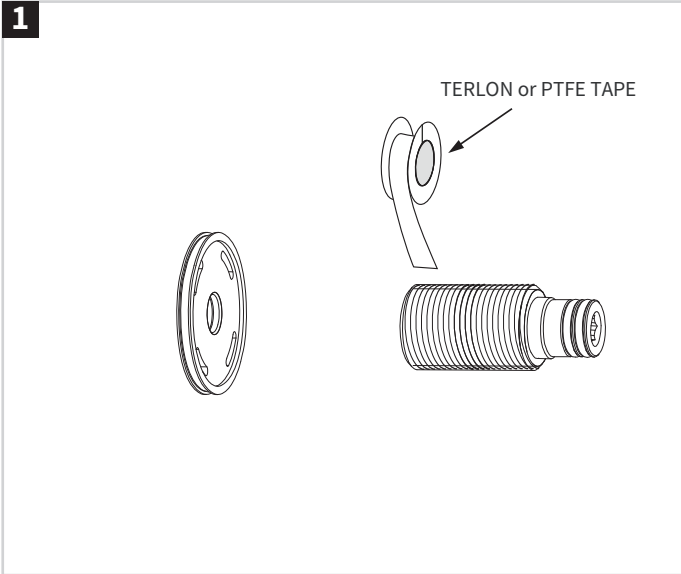
### Important:

Remember to turn off the mains water supply before connecting to any existing pipe work. Fitting isolating valves to the inlet feeds is recommended for ease of maintenance.

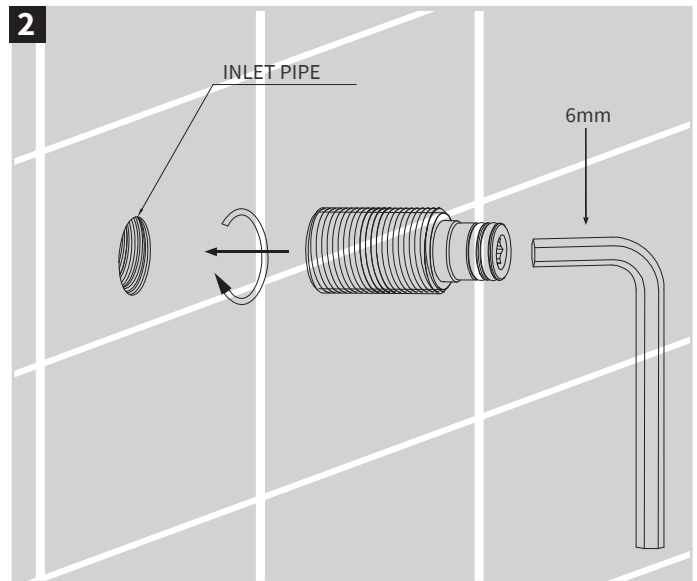
**Warning:** Before installing the new fitting it is essential that you thoroughly flush through the pipework in order to remove any remaining swarf, solder, etc. Failure to carry out this procedure could cause problems or damage to the workings of the fitting.

Take care when handling the 'flexible connecting pipes', do not bend, twist or crush them. Only tighten the pipes by hand. Do not crush or kink the shower hose, this could damage the hose and cause leaks.

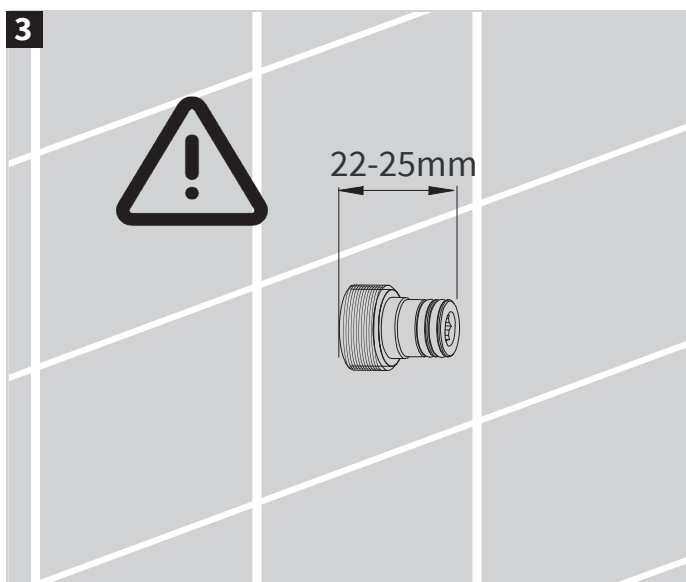
## INSTALLATION



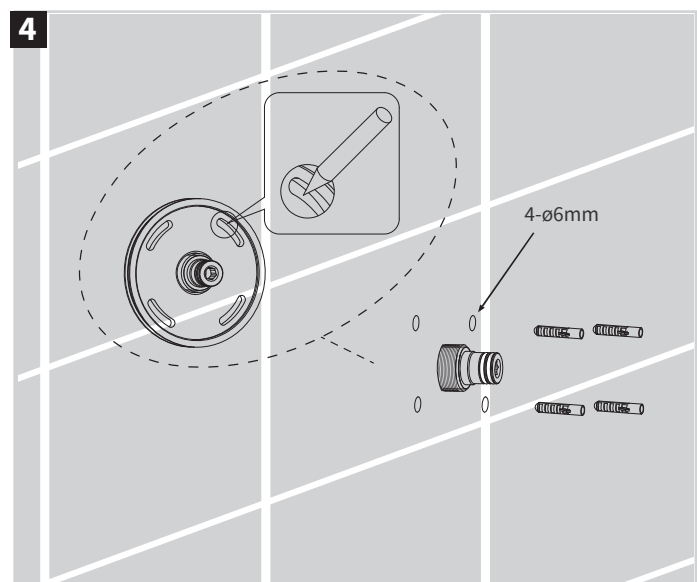
Remove the mounting plate and connector from the product.  
Wrap the connector thread using teflon or ptfe tape (not included) to achieve a watertight seal.



Install the connector into wall by hexagonal key (not included).

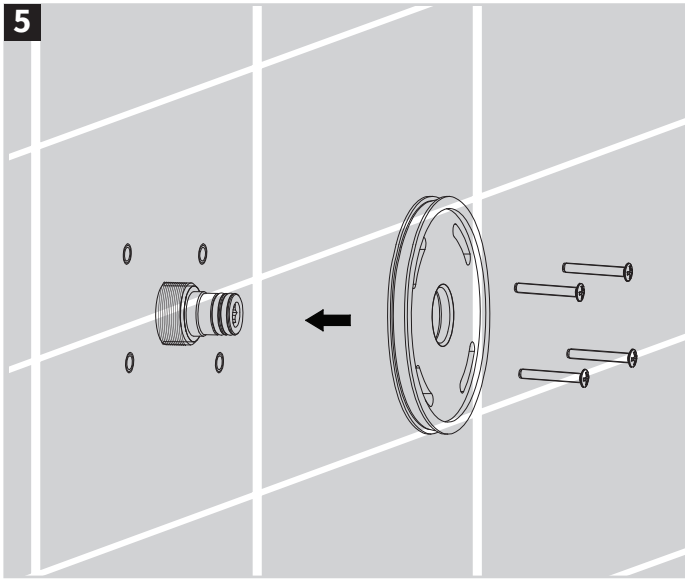


Attention: Ensure the exposed part should be between 22 to 25 mm from the tile to the end of connector.

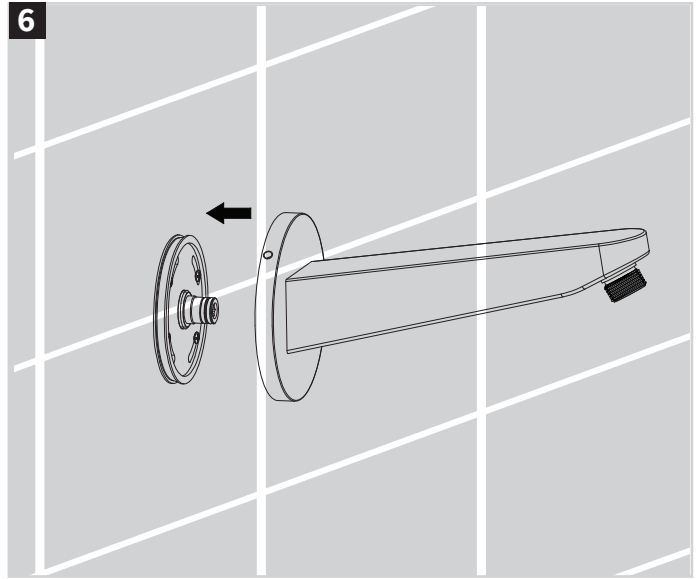


Mark the positions of the screw holes.  
Remove the mounting plate and drill the holes (4-ø6mm) to install wall plugs.

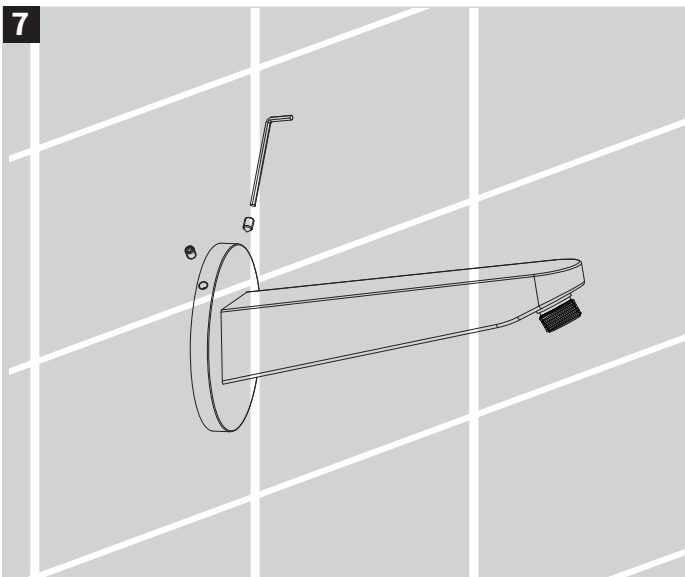
## INSTALLATION



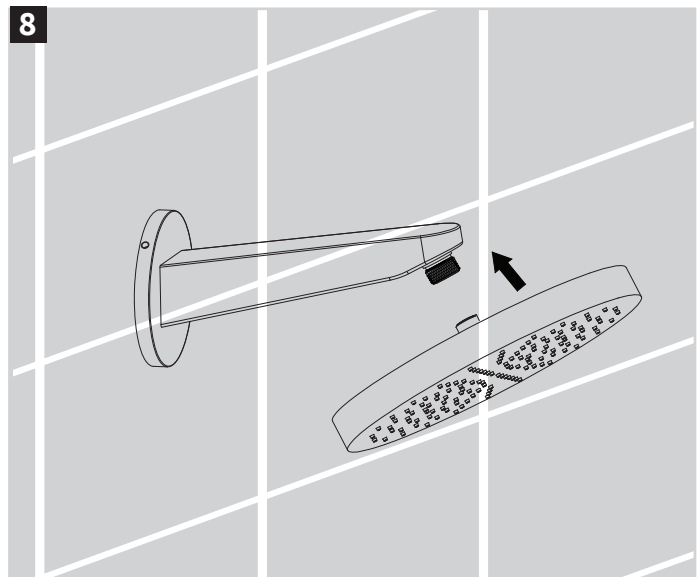
Install and fix the mounting plate into wall by screws.



Insert the shower arm into connector and mounting plate. Make the arm close to the wall.



Ensure the arm in place and tighten the arm with the 2 grub screws with hexagonal key.



Put the shower head onto the shower arm.

## CARE & MAINTENANCE

The material we use in our brassware is very durable, nevertheless care should be taken when cleaning them. They should be cleaned only with warm soapy water followed by rinsing with clean water and drying with a soft cloth. All finishes are vulnerable to acid attack and some strong substances such as household cleaners, disinfectants, denture cleaners, hairdyes, wine making, and photographic chemicals can cause the surface to go black or peel.

Note: Never use abrasive detergents or disinfectants or those containing alcohol, hydrochloric acid or phosphoric acid.

This product should only be fitted by a qualified plumber to NVQ (National Vocational Qualification) or SNVQ (Scottish National Vocational Qualification) Level 3. Should the installation be completed by a non-qualified person then the guarantee may be considered invalid.

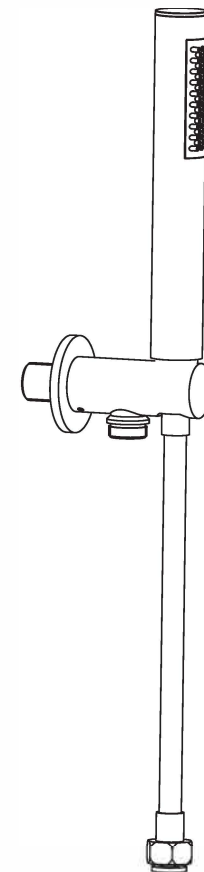
For a claim made under our warranty written certification of your installers credentials can be required. For further information or to find a qualified installer in your area please visit the Institute of Plumbers website - [www.iphe.org.uk](http://www.iphe.org.uk)

### THE QUALIFICATIONS

At present, to be a plumber you need to follow the National Vocational Qualification (NVQ) route (Scottish National Vocational Qualification - SNVQ - in Scotland). These qualifications are made up of theory and practical work in the classroom/purpose built training facility and work based experience with a working plumber. Colleges should help students find a work placement, although many students organise it themselves.

The S/NVQ qualification works in levels. All recently qualified plumbers should hold S/NVQ Level 2 as basic with Level 3 as the preferred level. Level 2 will give you the foundation you need for a career in plumbing and teach you domestic plumbing to a satisfactory level. Level 3 is more comprehensive and deals with domestic, commercial and industrial plumbing along with aspects such as gas - if you want to one day set up your own business, this is the level to reach. The Institute of Plumbing and Heating Engineering, and the industry as a whole recommends that all plumbers reach a minimum of Level 3.

Reaching Level 3 has other advantages. The Institute runs a Master Plumber Certificate, which only those attaining Level 3 or equivalent can reach as long as they have the relevant experience as well. Those with S/NVQ Level 3 can (once in membership with the Institute for five years as a Member MIPHE) gain Engineering Technician EngTech status with the Engineering Council (UK).



For any further information please contact  
Crosswater on: **0845 873 8840**

Or visit our web-site at [www.crosswater.co.uk](http://www.crosswater.co.uk)

The manufacturer reserves the right to make technical  
modifications without prior notice.

### INSTALLATION INSTRUCTIONS

## INTRODUCTION

**Please read these instructions carefully and keep in a safe place for future reference.**

### General Installation Requirements.

The installation must comply with regulations of the Local Water Authority as contained in their bylaws. All of the taps in this range are single flow (the hot and cold water mix in the body) and should therefore be supplied with hot and cold water at balanced pressures, both from the tank or both from the mains (via a combination boiler for example). If the taps are not supplied at balanced pressures then the mixer will not function correctly. It will also be necessary to fit non-return valves on both hot and cold feeds. It is very important that all pipework is flushed thoroughly after installation to avoid damaging the ceramic discs.

### Minimum/Maximum working pressure

These taps are suitable for high and mid pressure installations. They are fitted with a quarter turn ceramic disc cartridge which provides a good flow rate with very smooth movement. To ensure that the bath filler works adequately under low pressure, the cold water storage tank should be at least 2 metres above the highest installed position. The maximum water pressure is 4 bar (note: mains cold water is normally supplied at between 2 and 3bar). For installations where the mains pressure exceeds 4 bar a pressure reducing valve should be fitted.

### Approvals

All products are manufactured using materials tested and approved under the Water Bylaws Scheme and comply with requirements of British Standard 5412:1996 where applicable.

### Preparation and byelaw requirements

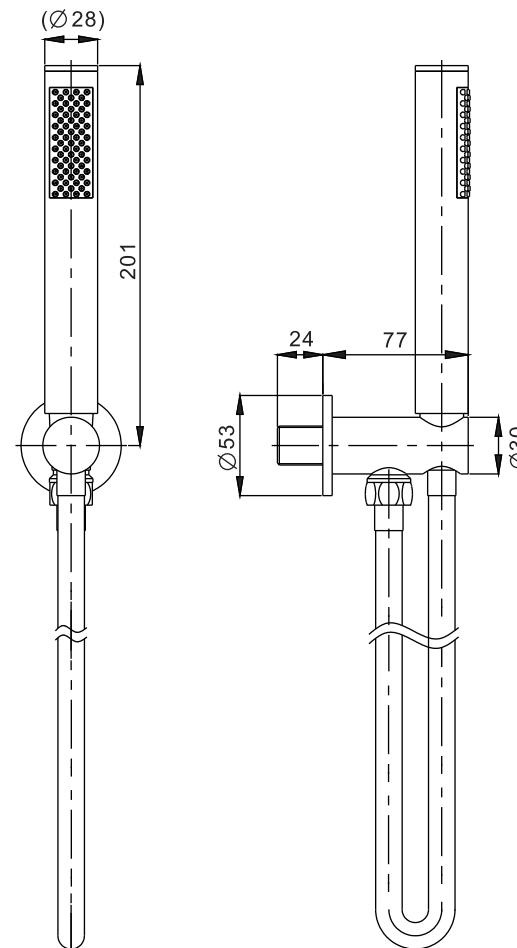
These taps are single flow so the hot and cold water mix in the body. Water byelaws require that where the hot water is supplied from a tank and cold from the mains, non return valves are fitted on both hot and cold pipes as close as possible to the tap. These are not supplied. Where combination boilers are fitted it is only necessary to shut off the incoming mains and turn the boiler off and non return valves are not required.

### WARNING

**Before installing the new mixer it is essential that you thoroughly flush through the supply pipes in order to remove any remaining swarf, solder or other impurities. Failure to carry out this simple procedure could cause problems or damage to the working of the mixer.**

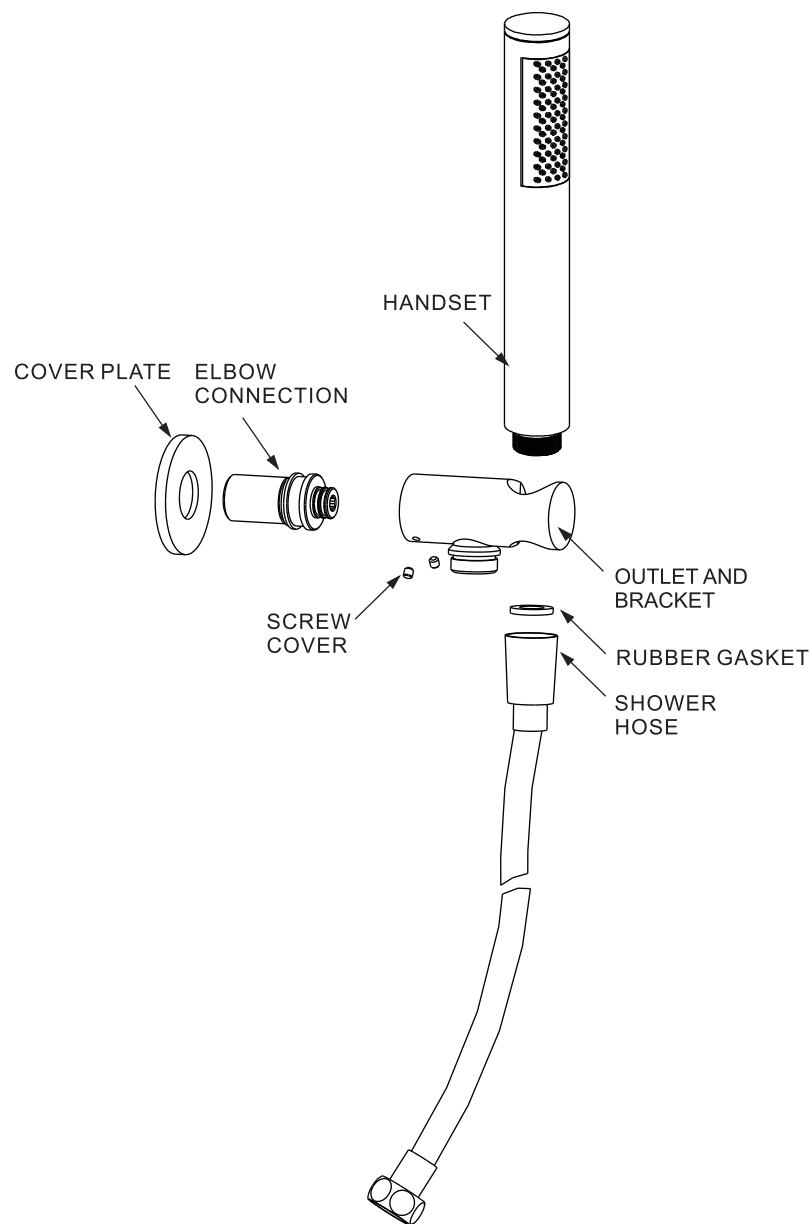
These hints have been prepared for your guidance, you must exercise due care at all times. We do not accept responsibility for any problems that may occur through incorrect installation.

## DIMENSIONS



**NOTE: ALL DIMENSIONS IN MILLIMETRES**

## INSTALLATION



## INSTALLATION

## INSTALLATION



**Remember to turn off the mains water supply before connecting to any existing pipe work.**

**Warning! Please check for any hidden pipes and cables before drilling holes in the wall.**

Position the valve onto the wall and mark the position of the fixing lugs (x4). Make sure the valve is set back from the front face of the wall by the appropriate depth to allow for plasterboard, filling and tiling etc. (min. 78mm to max. 105mm see dimension page).

Mount casting to the wall using suitable fixings.

Always leave access to the four front cartridges for servicing.

Once the valve has been secured to the wall, the black Plastic Dust Cover can be temporarily attached to the valve with the screws supplied. This will protect the valve while the rest of the work is completed (**see fig 1**).

**First make connection main outlet (bath or fixed head) from the outlet on the underside of the valve.**

Connect the 90° elbow provided to the secondary outlet of the valve pointing it to the right. Then fix the straight end of the flexi hose onto this elbow.

The other end of the flexi hose is then connected to the male threaded stud on the wall side of the cover plate.



**Do not use tapered threaded adaptors or excessive thickness of sealing tape as this may damage the valve body and result in a concealed leak within the wall cavity.**

Remove the Plastic Dust Cover.



**Turn on supplies and test all connections for water tightness.**

Remove Hot and Cold check valves, and flush out the installation, clean the filters and refit.

Apply a narrow bead of clear silicone sealant around the back edge of the cover plate and carefully press into position.

Fit the control knobs by lining up the flat surface of the valve cover with the grub screw on the handle, tighten the screw with the supplied hexagonal key (**see fig 2**).

## MAINTENANCE

