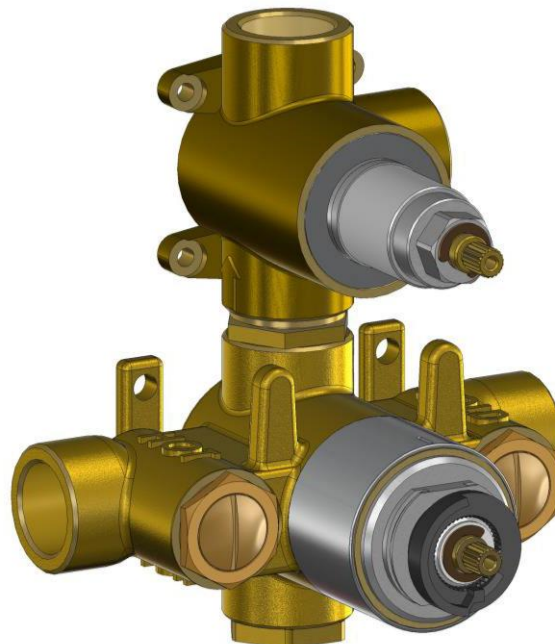
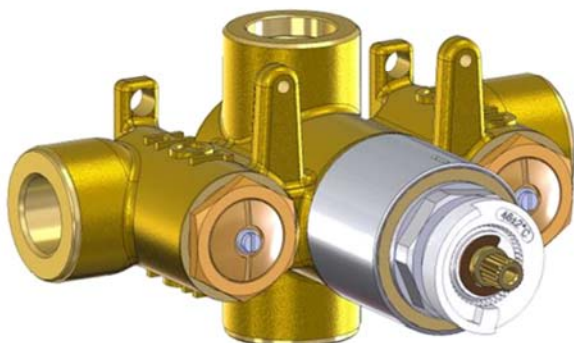
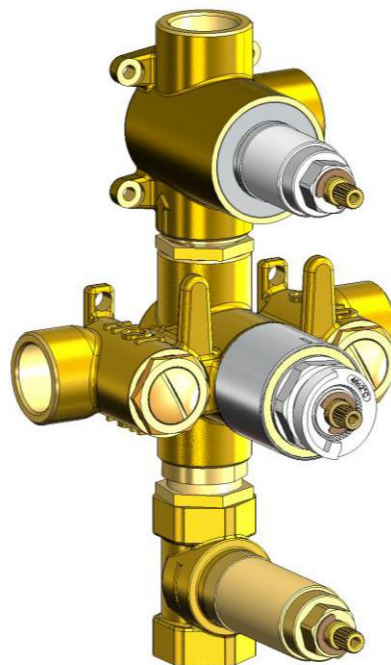
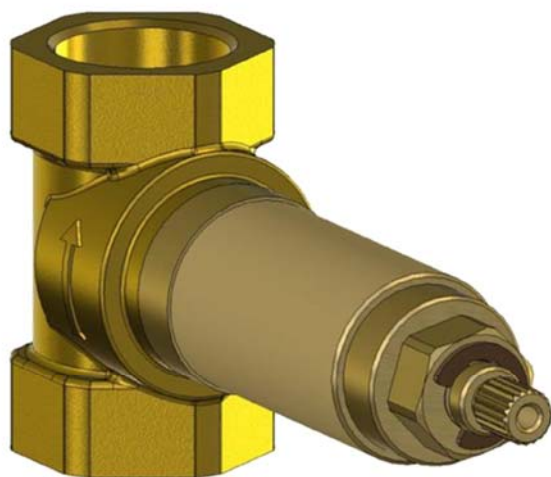


IN WALL THERMOSTATIC VALVE Ø 50

INSTALL & OPERATION MANUAL

Rain Therapy



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GENERAL FEATURES

This mixer is suitable for all water heating systems provided it is installed correctly by a competent and qualified installer.

OPERATING SPECIFICATIONS

Hot water supply temperature:

Maximum: 85°C

Advisable: 65°C

Minimum: 5°C

Minimum difference between hot and mixed temperature 10°C

The temperature of the inlet hot water must be higher than the maximum mixed water temperature required from the outlet.

Working pressures

Maximum: 10 bar

Minimum: 0.1 bar

Hot and cold operating pressures should be kept as balanced as possible in order to maintain maximum efficiency.

When the supply pressure is higher than 5 bar a pressure reducing valve should be fitted before the shower mixer.

TECHNICAL DATA

The mixer is supplied with a cover plate for the installation at a depth from 65mm to 85mm. The temperature control knob is pre-set from the manufacturer at 38°C.

The mixer ports are supplied with a female thread G ¾" or NPT ¾".

The thermostatic mixer is provided with an additional outlet at the base of the mixer. When using the bottom outlet a flow control is required between the mixer and the outlet.

The bottom outlet is sealed with a removable plug.

PLUMBING RECOMMENDATIONS

An independent hot and cold water supply is required for the shower system.

The recommended pipe work should be 22mm minimum for low pressure system.

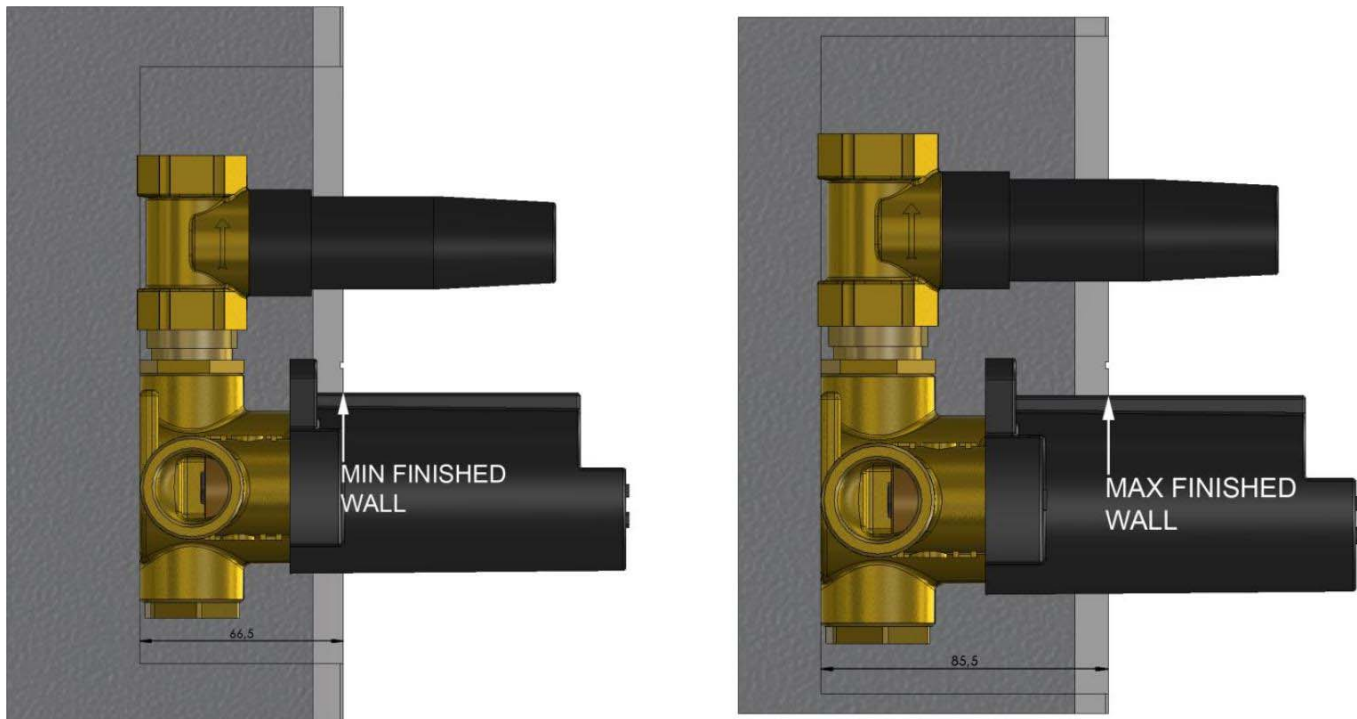
If more than one shower mixer is installed, the minimum feed should be 28mm. (ensure adequate supply of both hot and cold water can be maintained)

**READ CAREFULLY THIS MANUAL BEFORE USING YOUR MIXER AND
KEEP IT AT HAND FOR FUTURE REQUIREMENTS**

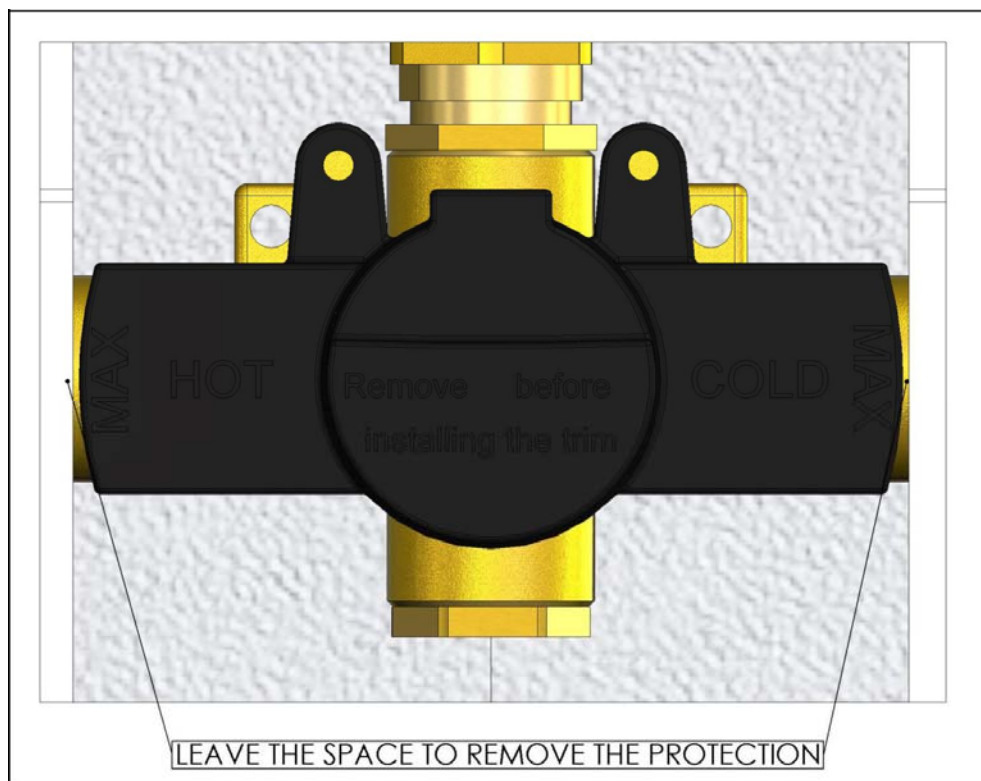
Rain Therapy

IN WALL INSTALLATION

Consider the thickness of the tiles or marble, etc...

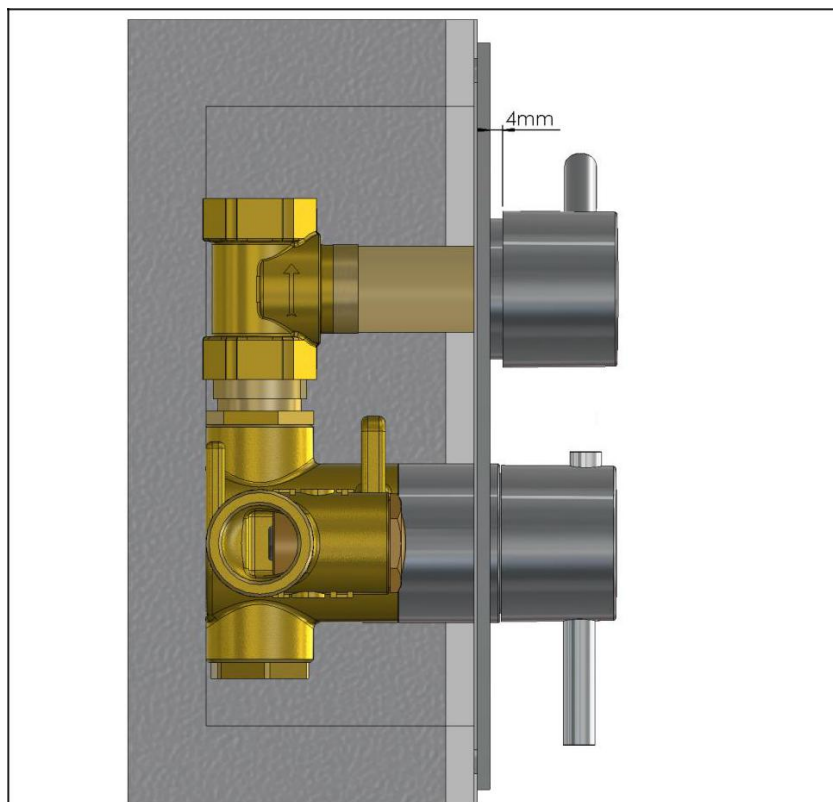
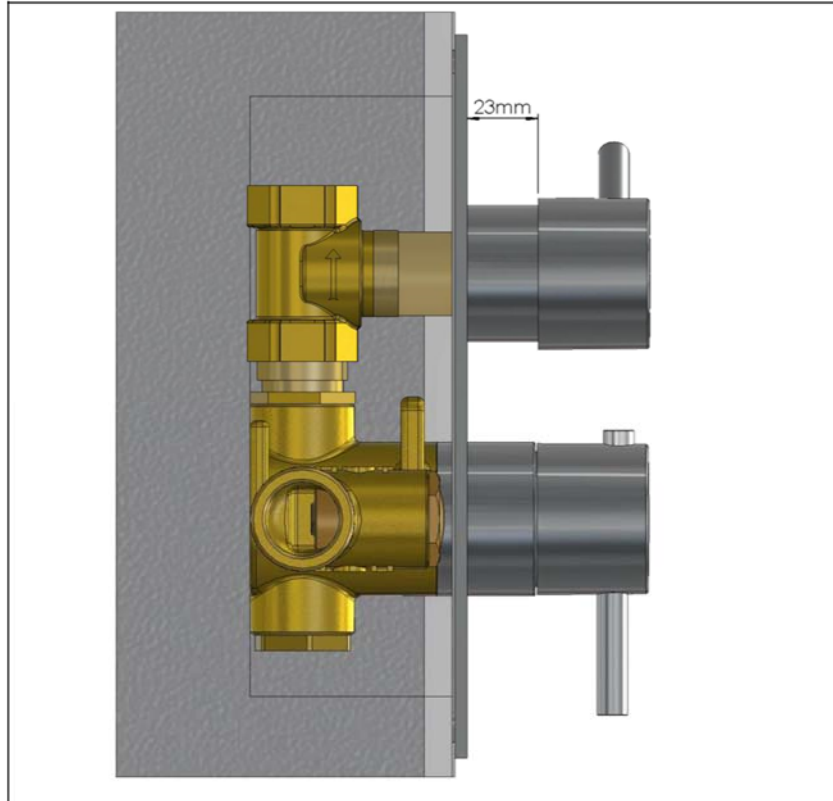


Keep a **125 mm** hole in the wall to remove the protection and for the future maintenance of the product.



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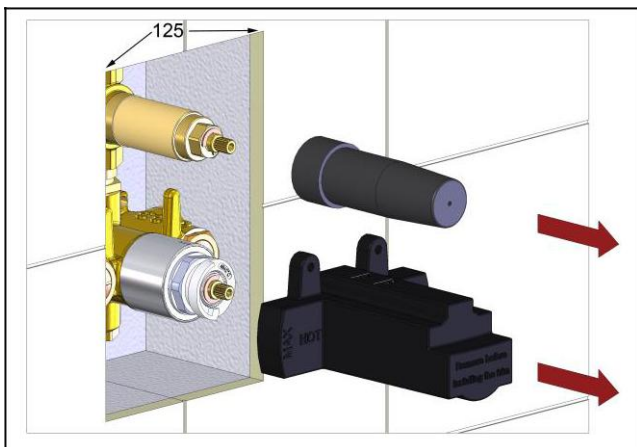
The plate slide from a minimum of 23mm to a maximum of 4mm..



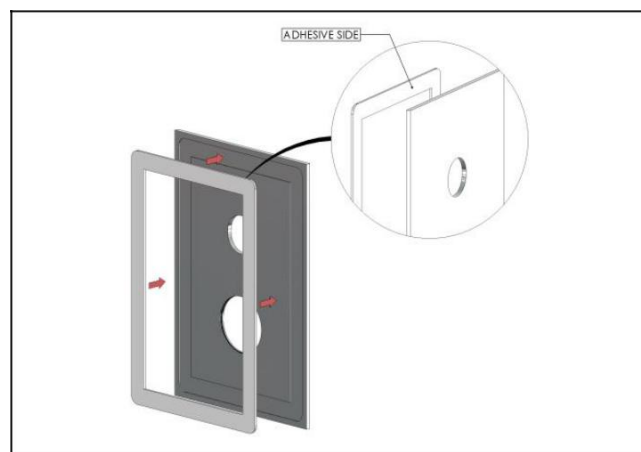
Rain Therapy

COVER PLATE FIXING

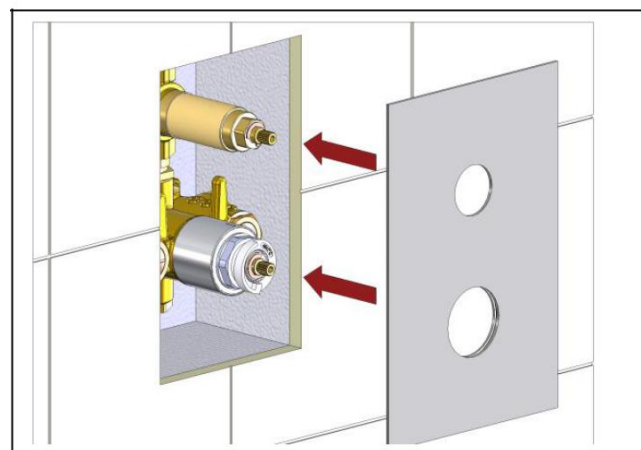
- 1) Once the mixer is installed into the wall, remove the plastic guides.
(KEEP A HOLE IN THE WALL AT LEAST OF 125mm)



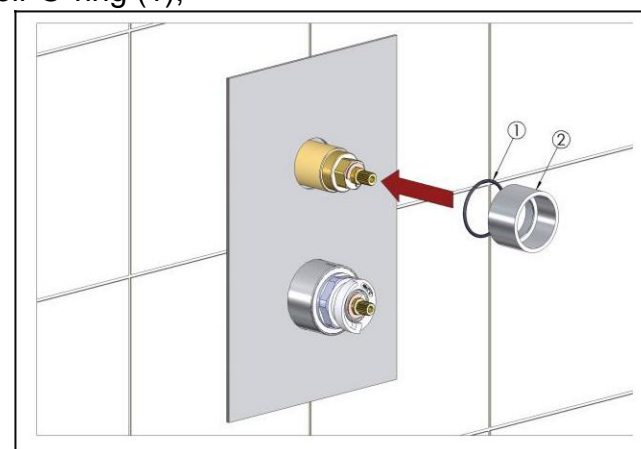
- 2) Position the sealing washer with the adhesive side in contact with the plate.



- 3) Fix the cover plate on the chromed ring and on the threaded rod.



- 4) Screw the adapter (2), or the adapters, with their O-ring (1), until the plate is against the wall.

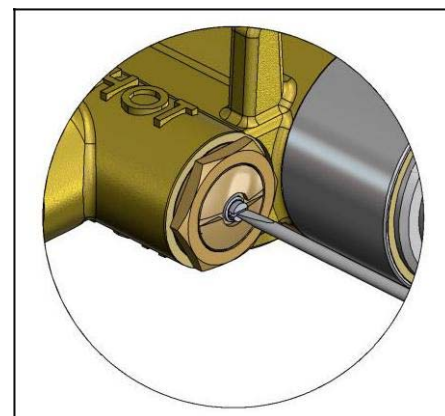


Rain Therapy

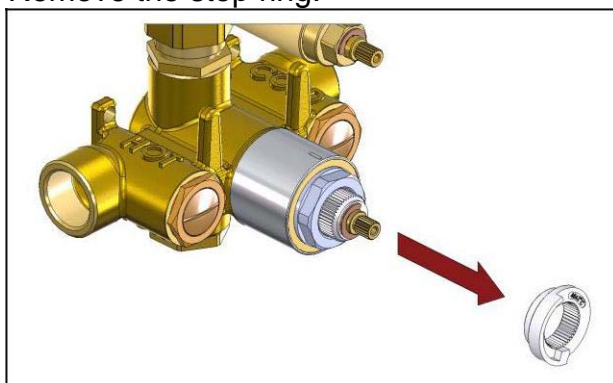
MAINTENANCE-REPLACEMENT OF THE THERMOSTATIC CARTRIDGE

Before proceeding with the maintenance of the cartridge, remove the regulation handle. Follow the instructions shown in section “HANDLES REMOVAL” at pag.12

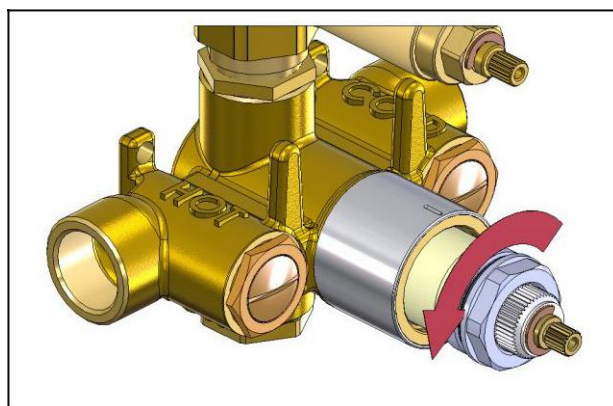
- 1) Close the water inlets. With closures on the valve holders, screw for 7 turns the front screws with a flat screwdriver, in order to isolate the thermostatic cartridge



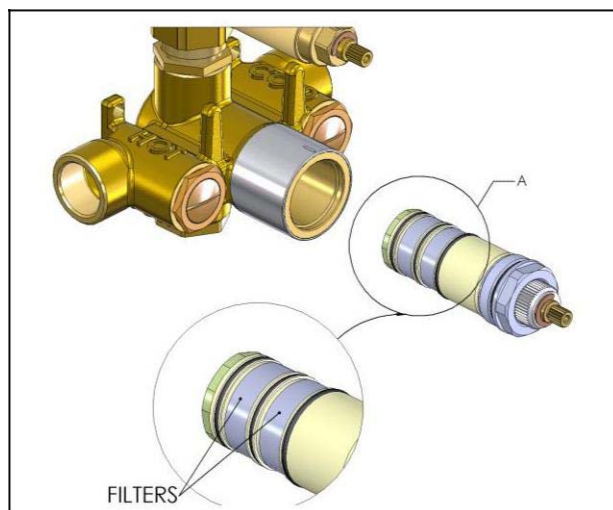
- 2) Remove the stop ring.



- 3) Unscrew the thermostatic cartridge anti-clockwise with a 30mm wrench.



- 4) Remove the thermostatic cartridge and clean its filters under running water or leave to soak in vinegar in presence of limestone. Grease the O-rings and, if damaged, replace them with new ones.
 2x OR 2100 mm 25,12 x 1,78
 1x OR 2106 mm 26,7 x 1,78

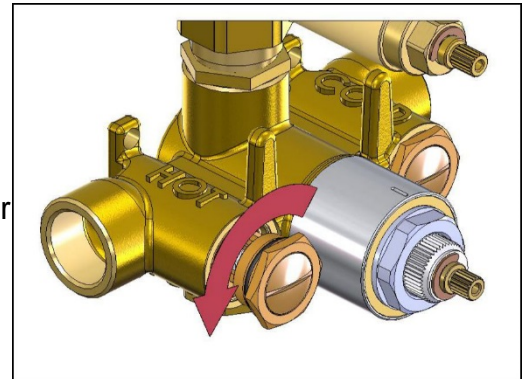


Rain Therapy

MAINTENANCE-REPLACEMENT OF THE VALVE HOLDERS

- 1) Unscrew the valve holders anti-clockwise with a 27mm wrench
DO NOT USE A SCREW DRIVER
Exerting a max torque of 8-10 Nm
or 70-80 lbf.in

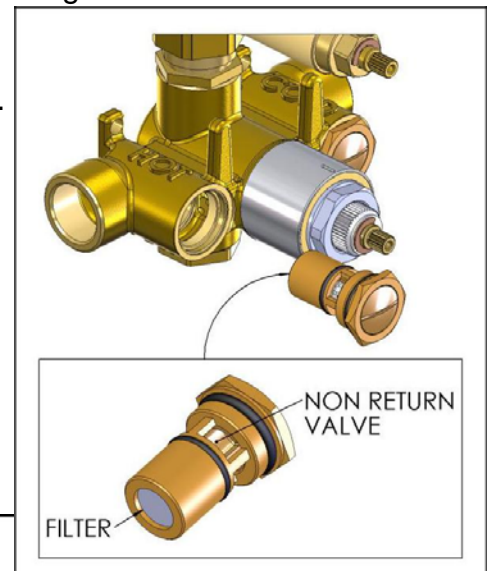
- 2) Remove the valve holders and clean the filters under running water. If necessary, leave them soak in vinegar in presence of limestone.



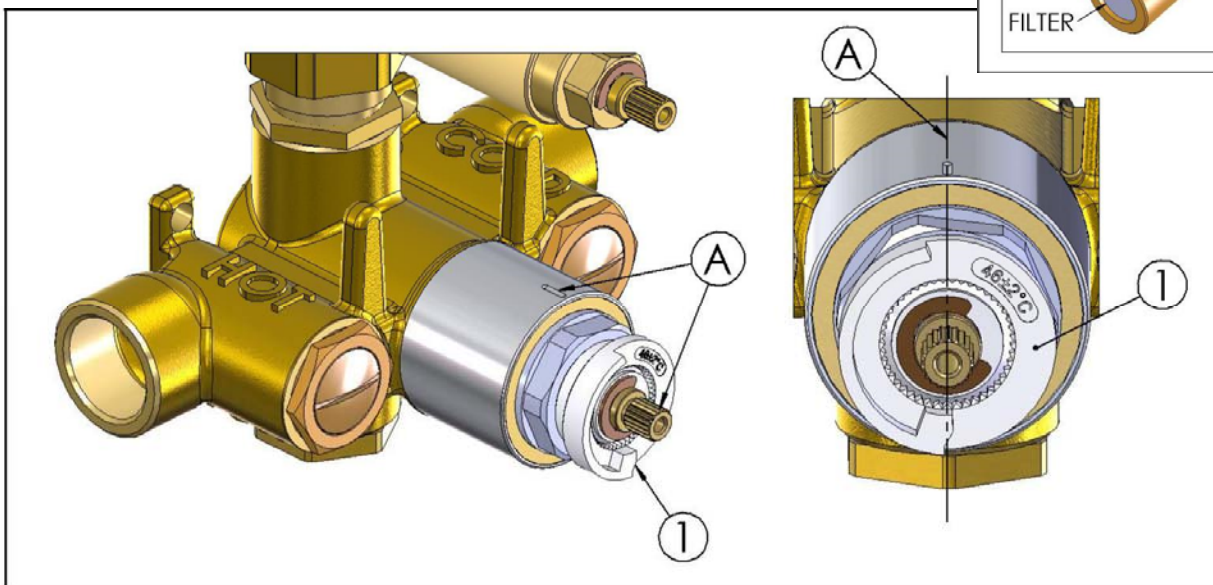
POSITION OF THE STOP RING

According to the mixer model, place the stop ring as shown in the image below.

Using the handle, rotate the broached rod to reach the set temperature of 38°C (check the temperature with a thermometer).



Turn clockwise for cold or anti-clockwise for hot water.



Rain Therapy

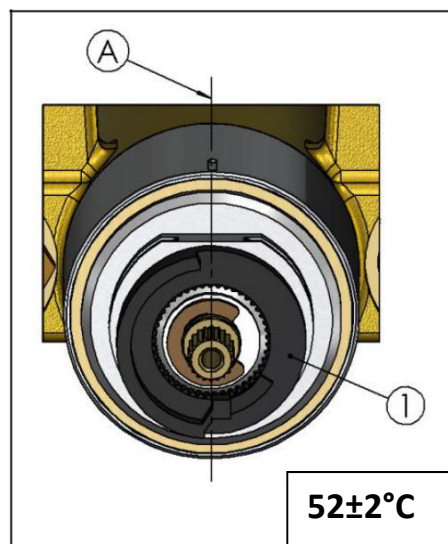
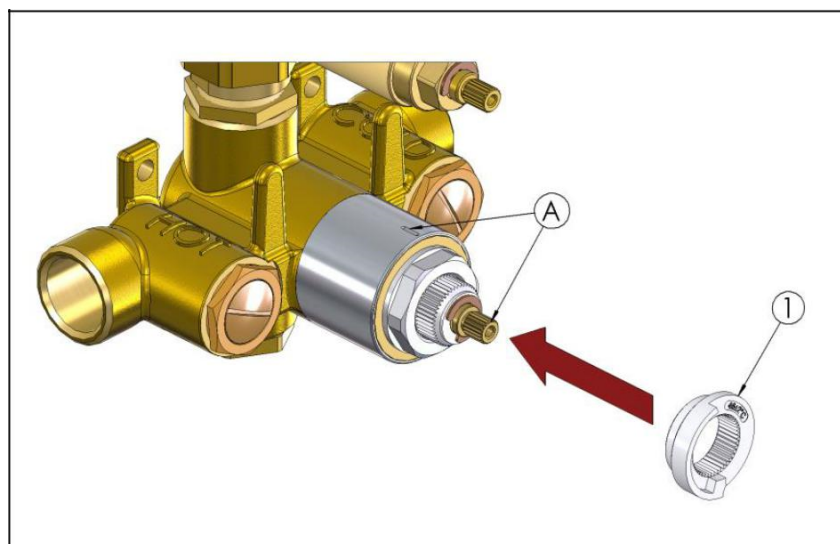
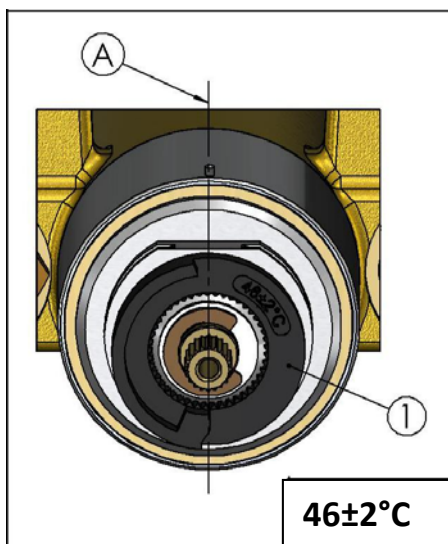
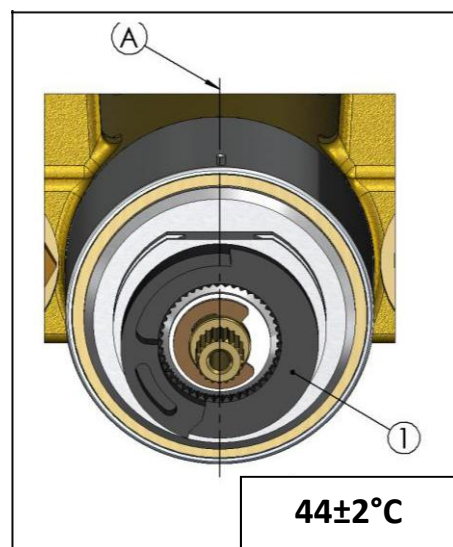
STOP TEMPERATURE RING

POSITION OF THE STOP RING

According to the mixer model, place the stop ring as shown in the image below.

Using the handle, rotate the broached rod (A) to reach the set temperature of 38°C (check the temperature with a thermometer).

Turn clockwise for cold or anti-clockwise for hot water.



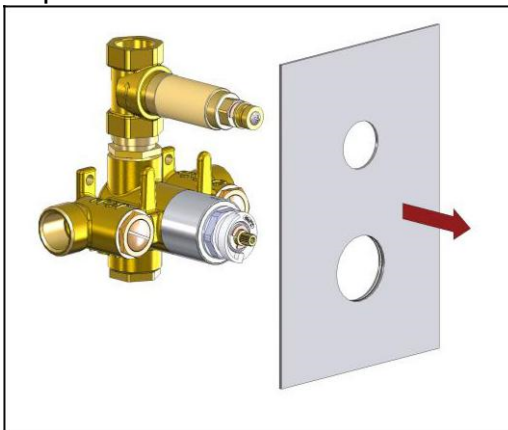
Rain Therapy

SHUT OFF VALVE

Before proceeding with the maintenance of the headwork, remove the handles.
Follow the instructions shown in section “HANDLES REMOVAL” at pag.12.

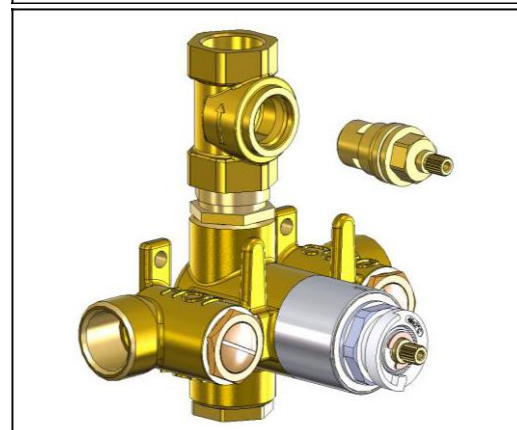
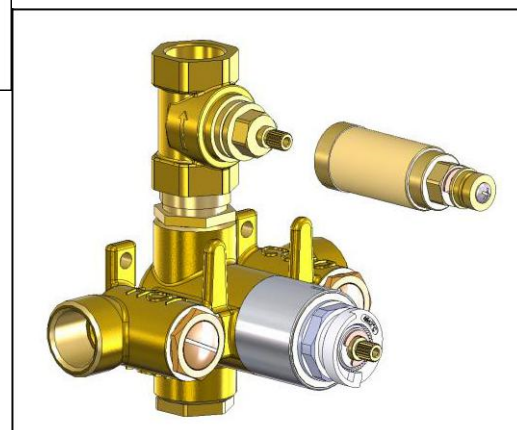
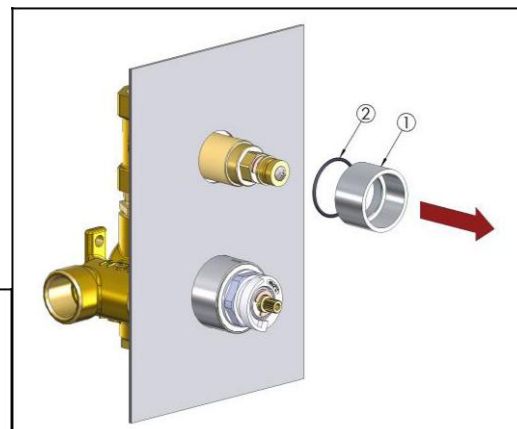
- 1) Unscrew the chromed adapter (1), being careful not to lose the O-ring (2).

- 2) Remove the cover plate.



- 3) Unscrew the threaded rod with a 17mm wrench .

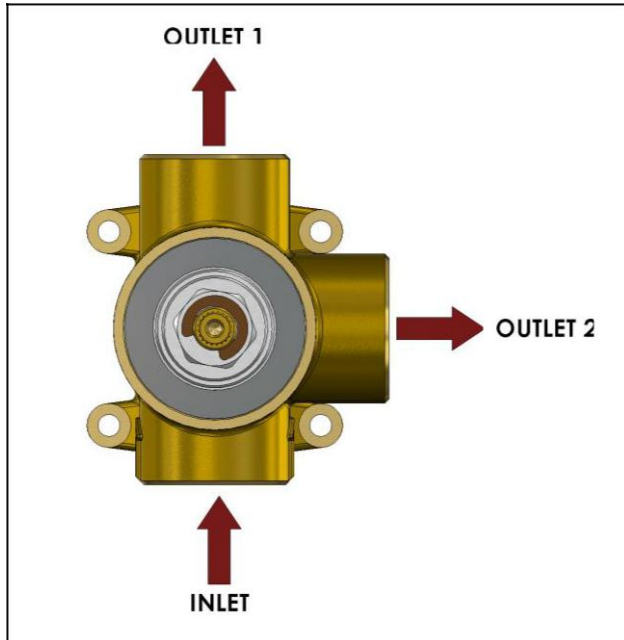
- 4) Before unscrewing the headwork make sure that bath water inlets are closed.
Unscrew the headwork with a 17mm wrench.



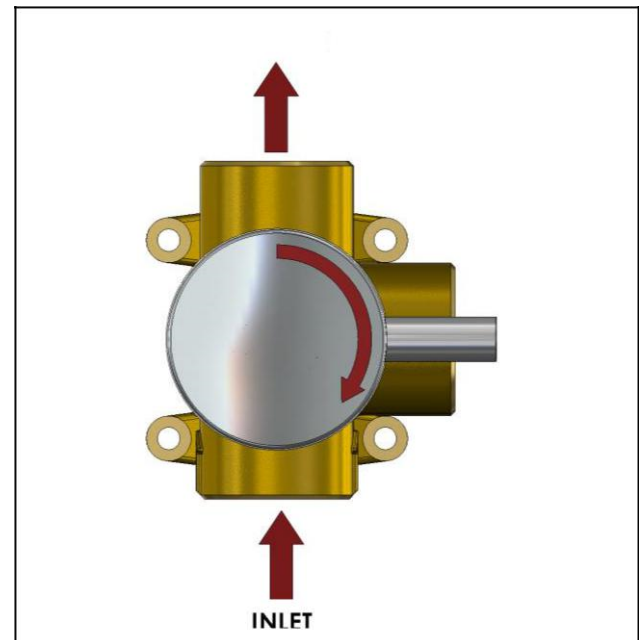
Rain Therapy

DIVERTER

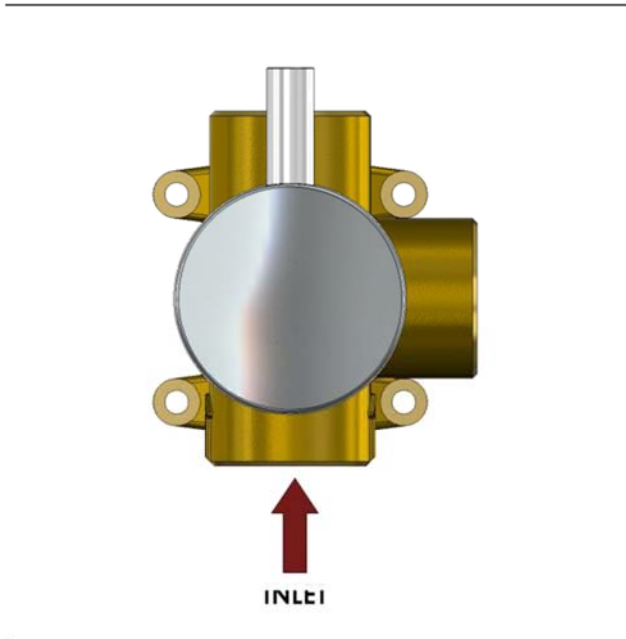
2 WAY DIVERTER



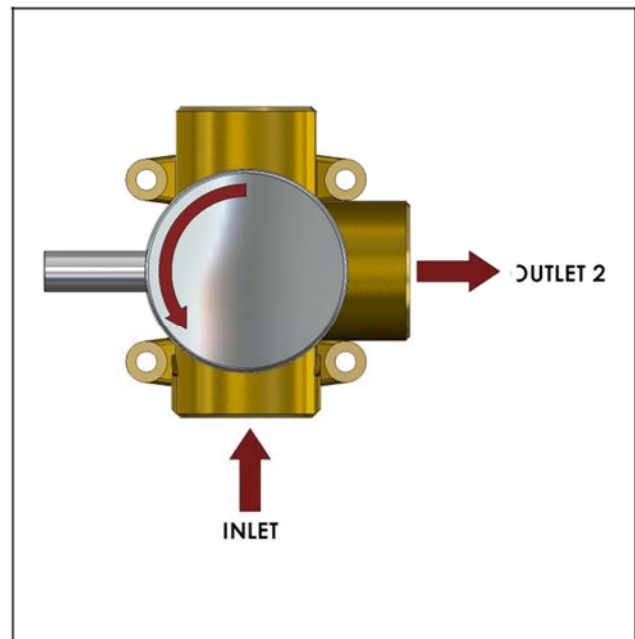
OUTLET 1



OFF POSITION



OUTLET 2



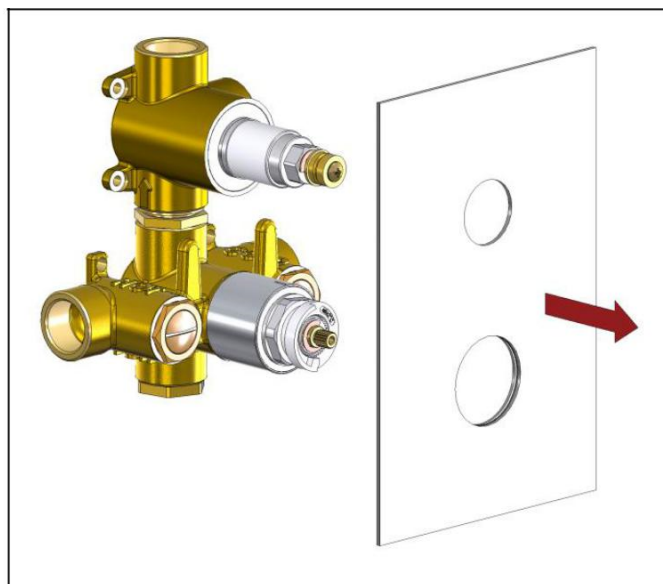
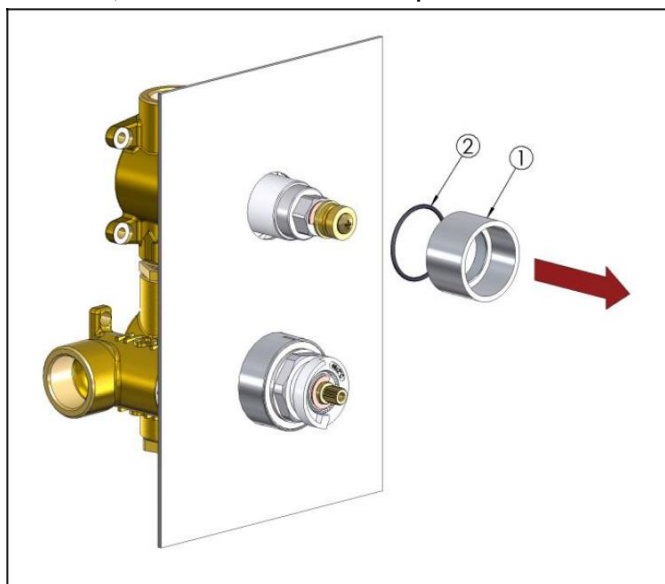
Rain Therapy

MAINTENANCE-REPLACEMENT OF THE DIVERTER CARTRIDGE

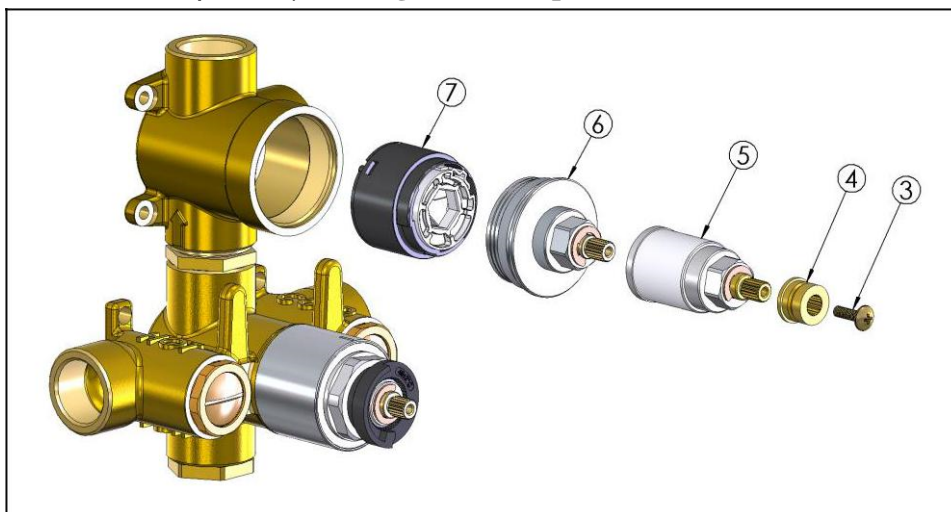
Before proceeding with the maintenance of the diverter cartridge, remove the handles.

Follow the instructions shown in section “HANDLES REMOVAL” at pag.12.

- 1) Unscrew the chromed adapter (1) anti-clockwise, paying attention not to lose the O-ring (2).
- 2) Remove the cover plate.



- 3) Close the water inlets.
Remove the screw (3), remove the brass insert (4) and unscrew the threaded rod (5).
Unscrew the flange (6) anti-clockwise, with a 17 wrench. Remove the diverting cartridge (7).
- 4) Before replacing the cartridge, clean thoroughly and grease the inner seat of the body.
- 5) Replace the cartridge. Place the two pivots in their seats.
- 6) Reassemble all parts. (**Exerting a max torque of 8 Nm or 70 lbf.in**)

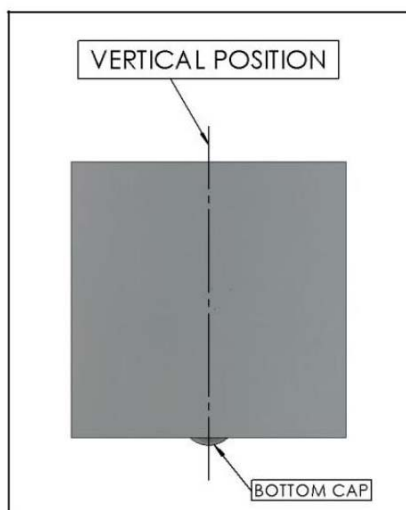
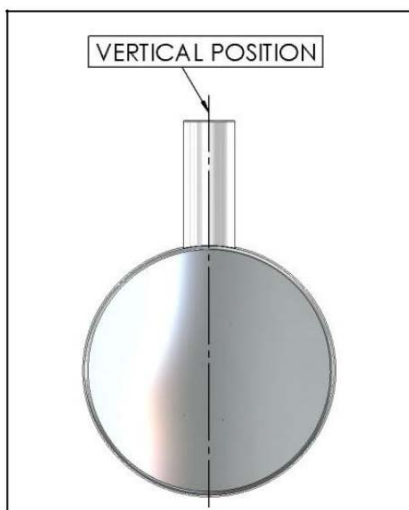
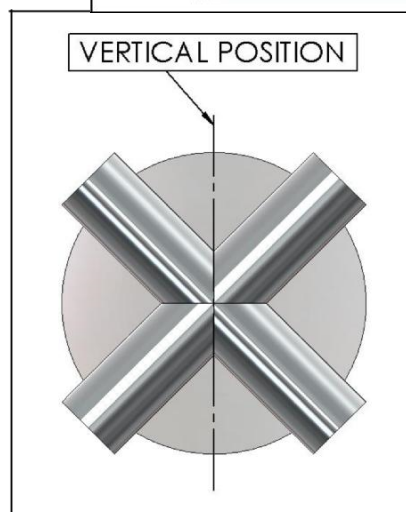
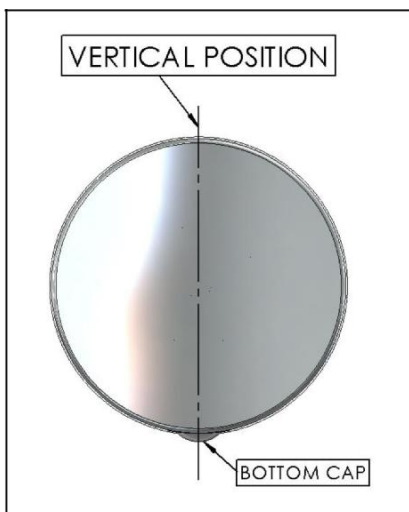
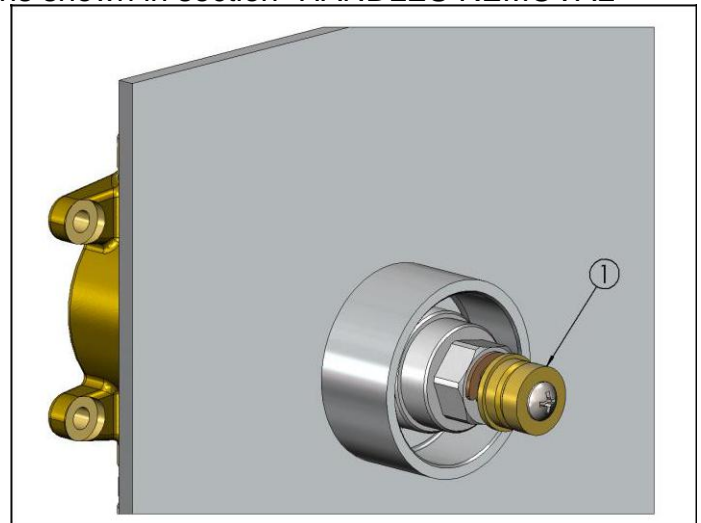


Rain Therapy

VERTICAL REGULATION OF THE DIVERTING HANDLE

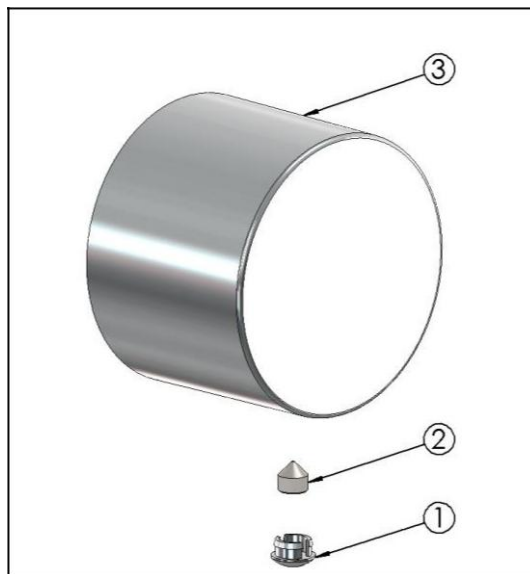
Remove the closure handle. Follow the instructions shown in section “HANDLES REMOVAL” on pag.12.

- 1) Position the handle on the insert (1) and rotate until the vertical position is reached.
(REFER TO IMAGE BELOW)

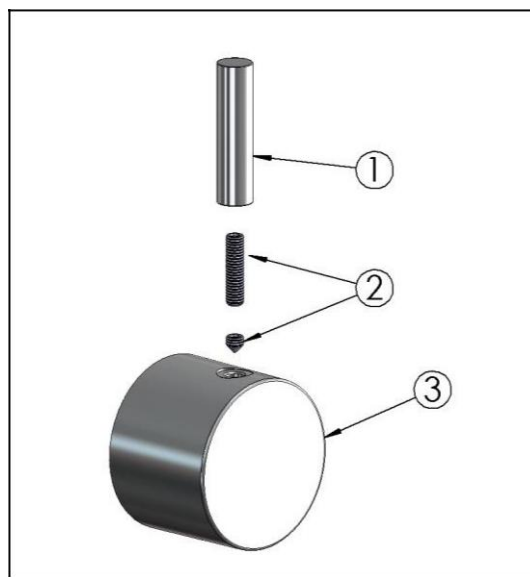


INSTALLATION AND REMOVAL OF THE HANDLES**VERSION WITH CAP**

- 1) Remove the cap (1).
- 2) Unscrew the grub screw (2) with an 2,5mm Allen key.
- 3) Remove the handle (3).

**VERSION WITH LEVER**

- 1) Unscrew the lever (1).
- 2) Remove the two grub screw 2) with a 2,5mm Allen key
- 3) Remove the handle (3).

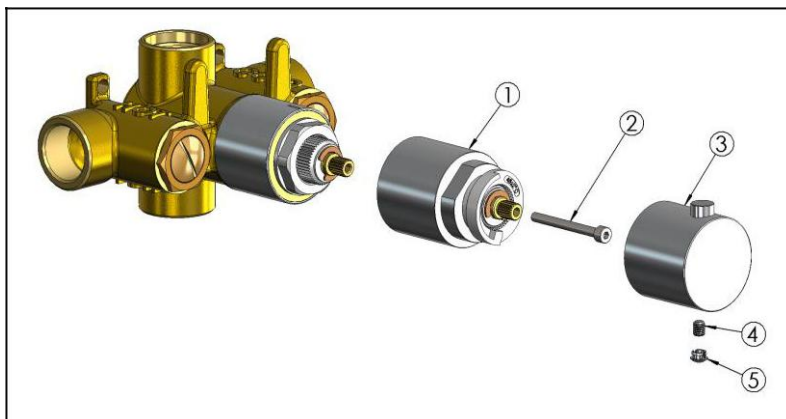


Rain Therapy

EXTENSION KITS

Thermostatic Mixer

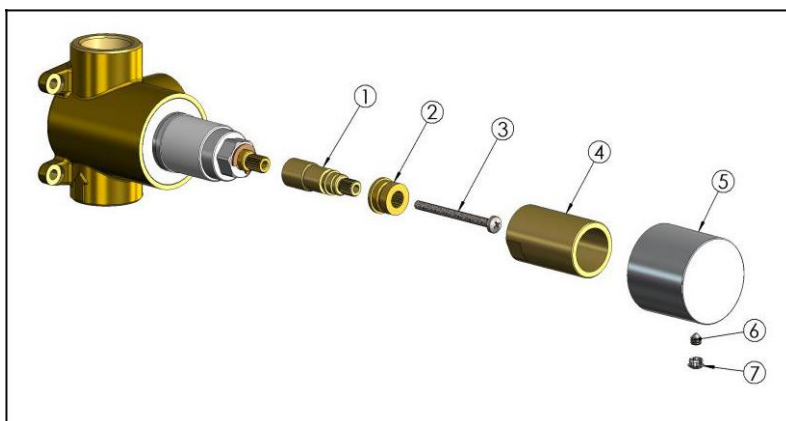
- 1) Insert the extension (1) on the broach of the cartridge in order to have the reference line in vertical position.
- 2) To position the stop ring, see section "Position of the stop ring" on pag.7.
- 3) Fix the screw (2) with a 3mm Allen key.
- 4) Fix the regulation handle (3) screwing the grub screw(4) with a 2,5mm Allen key..
- 5) Fix the small cap (5).



Diverter

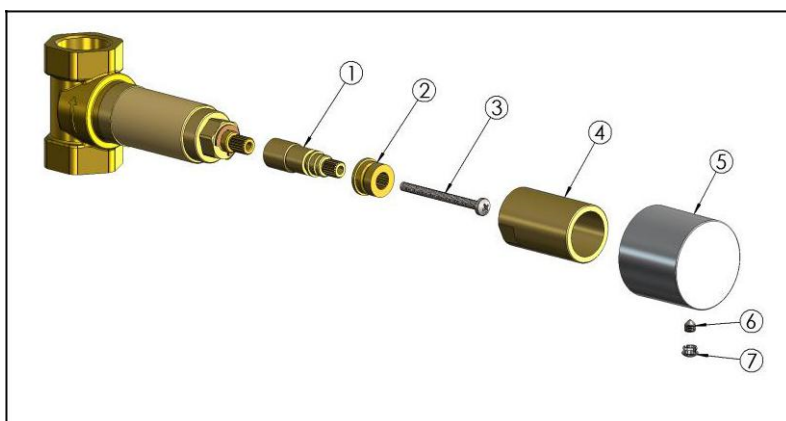
Insert the broached extension(1) and the centering insert (2).

- 1) Fix the screw (3) with a Philips screwdriver.
- 2) Screw the threaded rod(4).
- 3) Fix the diverter handle(5) screwing the grub screw(6) with a 2,5mm Allen key
- 4) Fix the small cap(7).



Shut off valve

- 1) Insert the broached extension (1) and the centering insert (2).
- 2) Fix the screw (3) with a Philips screwdriver
- 3) Screw the threaded rod (4).).
- 4) Fix the closure handle (5) screwing the grub screw (6) with a 2,5mm Allen key.
- 5) Fix the small cap (7).





Rain Therapy

IMPORTANT-CLEANING OF THE MIXER

After use the mixer should be maintained by wiping with a soft, damp, clean cloth. **NO** abrasive powders, detergents or polishes, cleaners containing alcohol, acid or corrosive chemicals should be used.

In case of prolonged disuse of the mixer in winter time, it is recommended to close the system and empty the mixer to avoid damages caused by frost.

NOTES

If these simple instructions are followed this mixer will give many years of satisfactory use.

The company has policy of continuous improvement and reserve the right to change specification without notice.

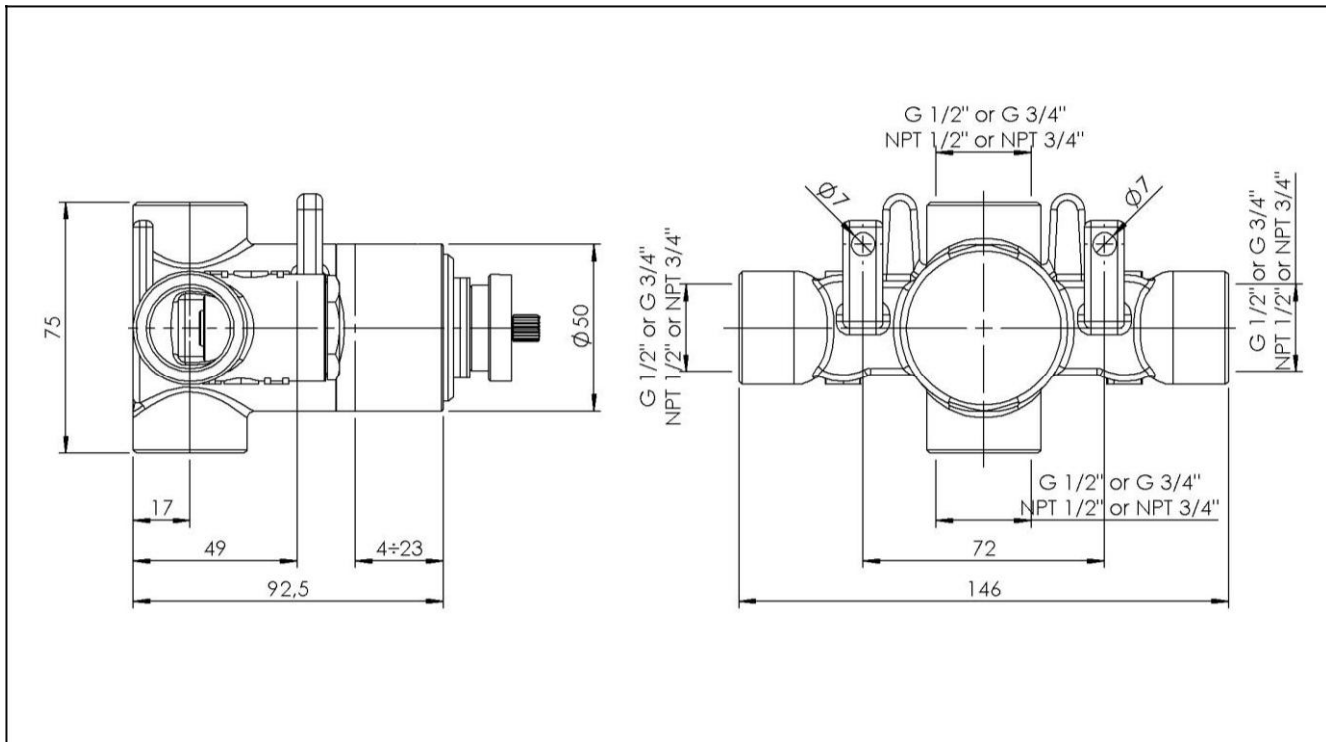
GUARANTEE

The mixer is guaranteed for a period of 24 months against any defect of material and workmanship from date of the purchase, subject to correct installation, maintenance and use in accordance with this instruction leaflet.

Please retain proof of purchase. During the guarantee period parts will be replaced or repaired at our option.

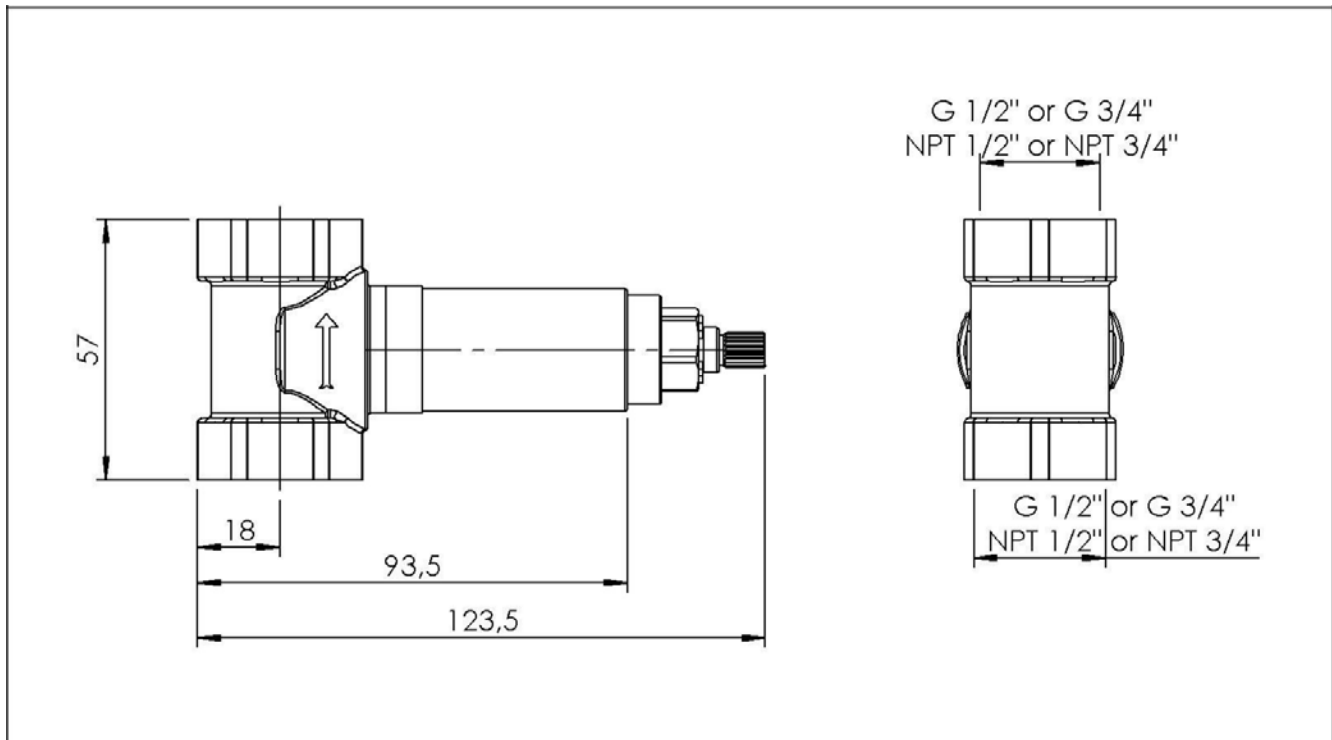
DIMENSIONAL DRAWINGS

THERMOSTATIC BUILT-IN MIXER

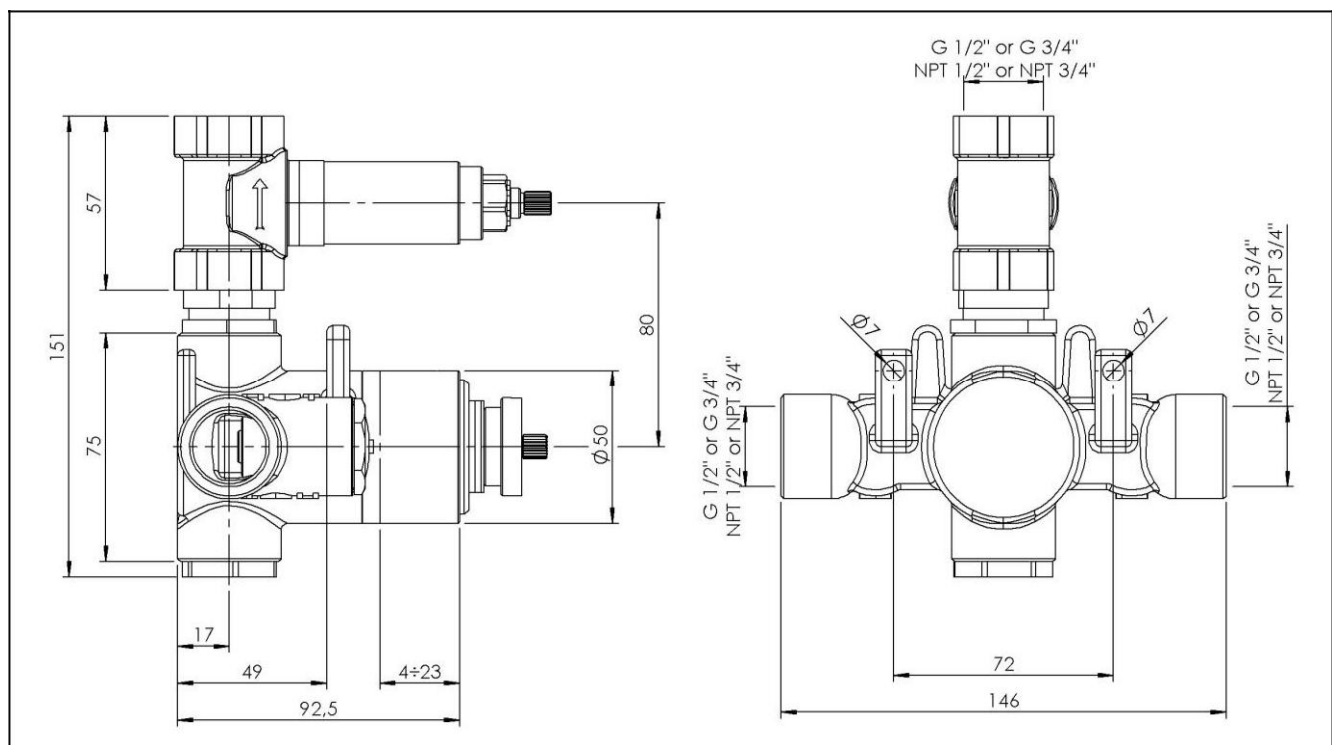


Rain Therapy

SHUT OFF VALVE

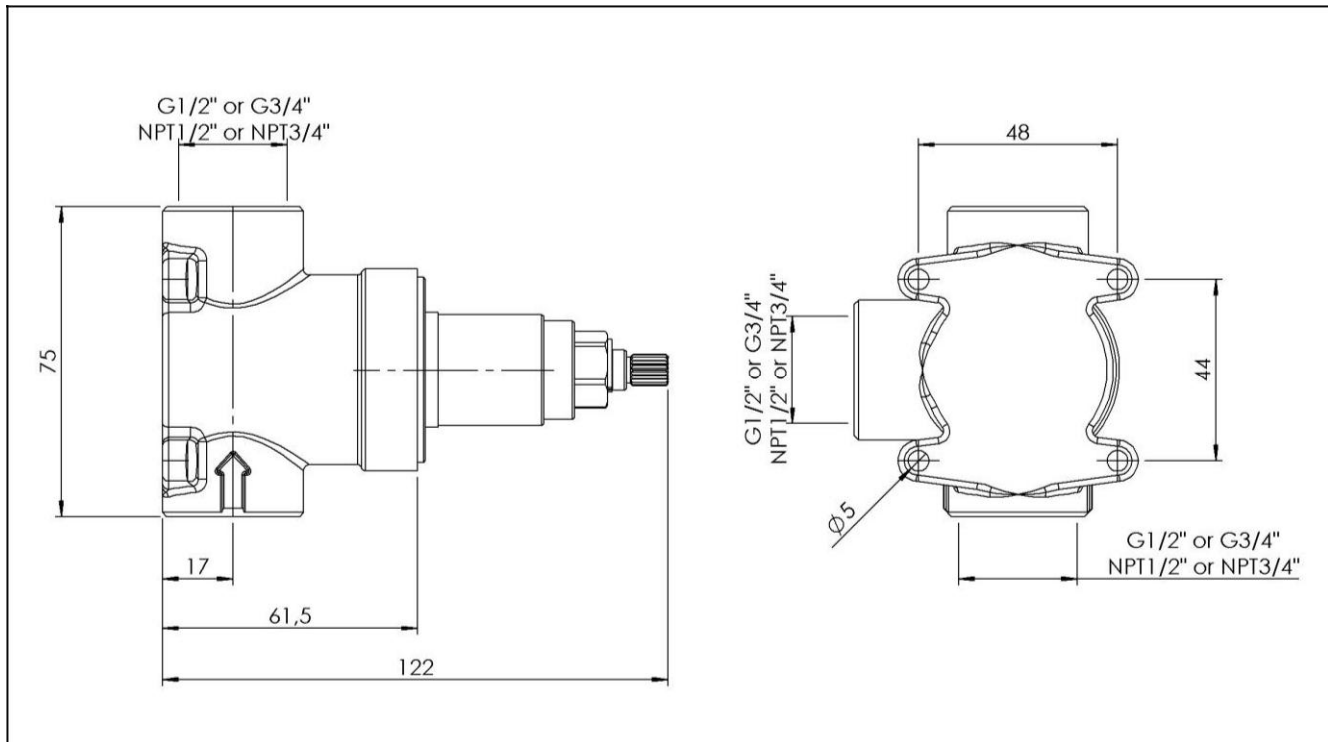


THERMOSTATIC BUILT-IN MIXER WITH SHUT OFF

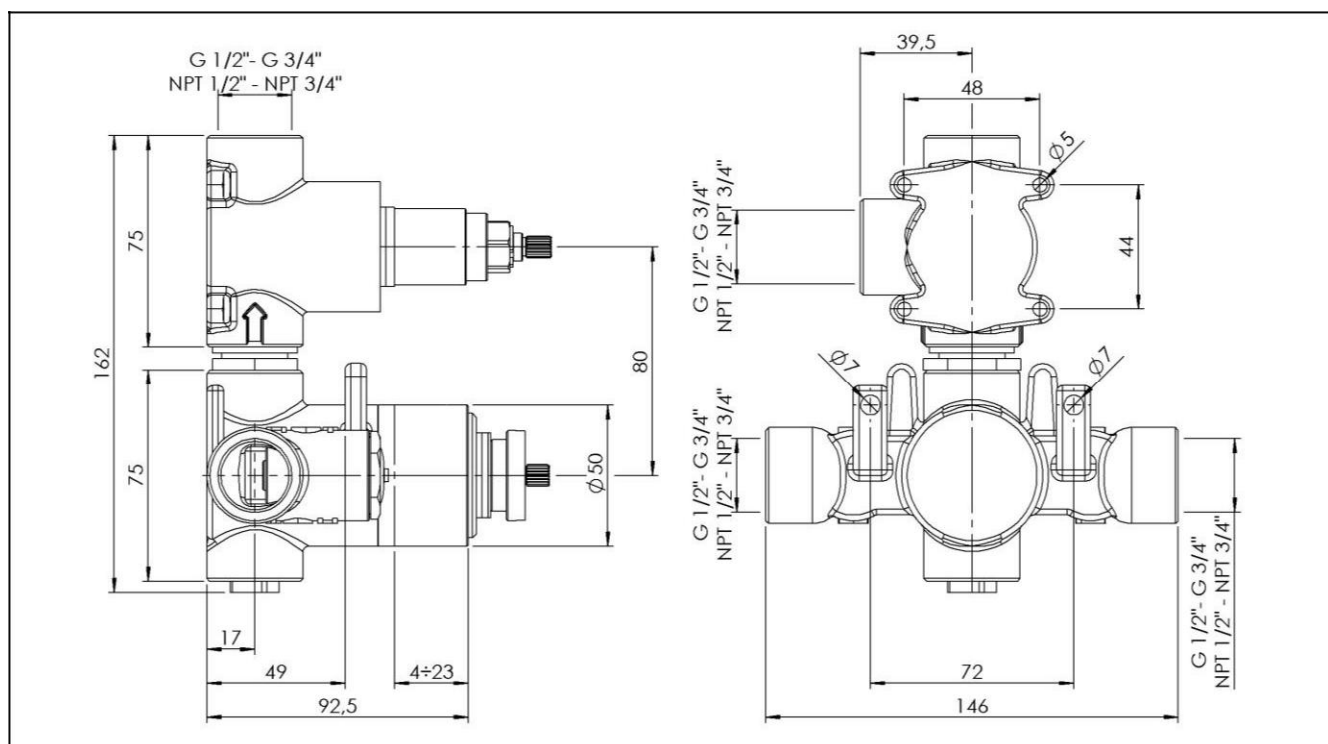


Rain Therapy

TWO WAY DIVERTER

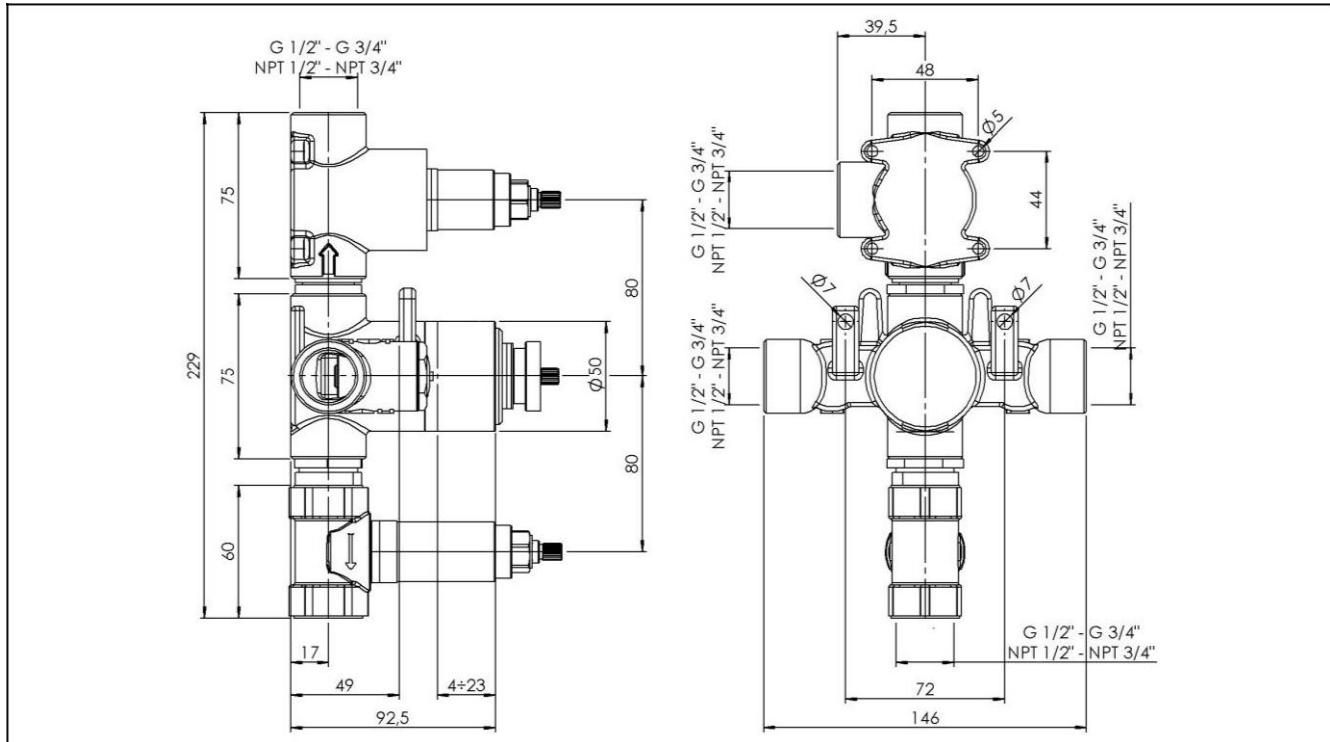


THERMOSTATIC BUILT-IN MIXER WITH TWO DIVERTER

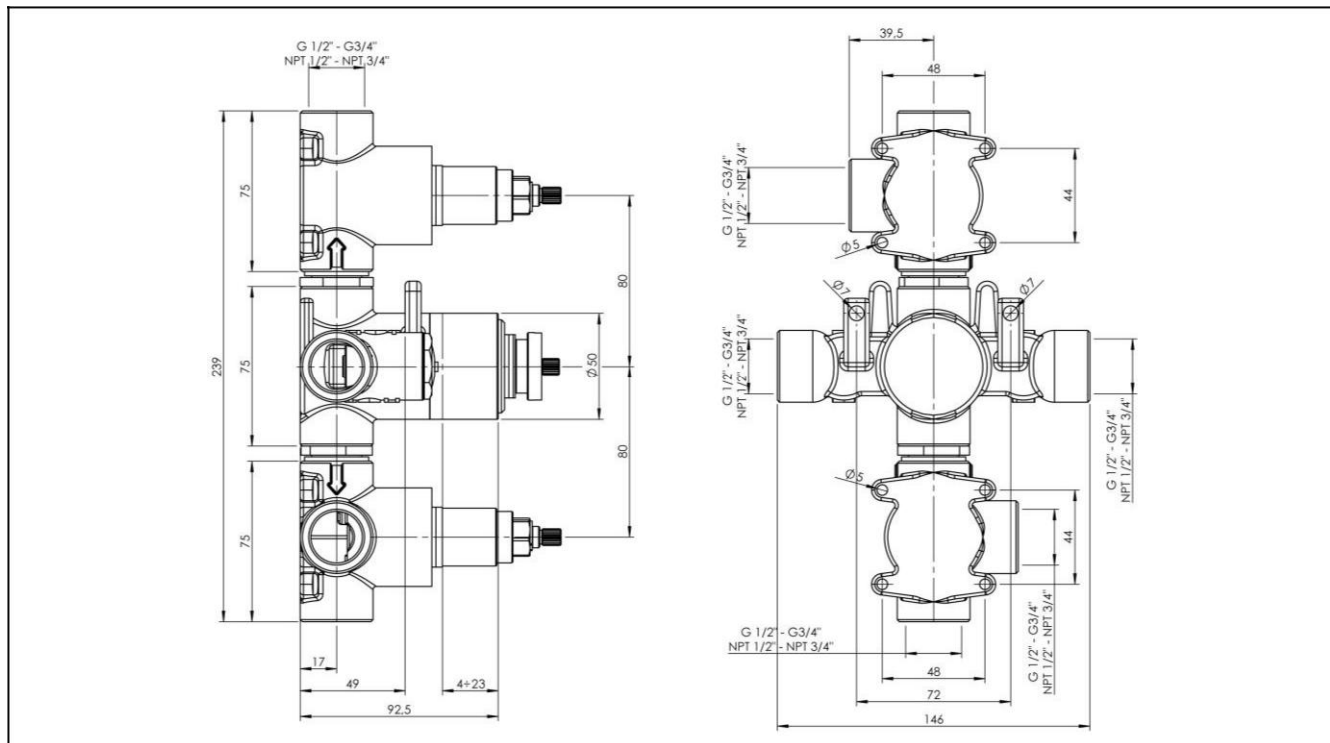


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THERMOSTATIC BUILT-IN MIXER W. 2 WAY DIVERTER AND SHUT OFF



THERMOSTATIC BUILT-IN MIXER WITH DOUBLE TWO WAY DIVERTER





Rain Therapy

TROUBLESHOOTING

Problem	Cause	Solution
1. Reduced or missing flow.	a) Closed water inlets. b) Blocked mixer. c) Blocked connecting pipes.. d) Blocked hand shower. e) Water flow reduction when other shut off valves are in function	a) Control the check valves. b) Check if the inlet filters and cleaned. c) Check if the connecting pipes and cleaned. d) Clean or replace the hand shower. e) Control if the check Are fully open Reduce the water flow of all open outlets.
2. The mixer does not shut off.	a) The gaskets are dirty. b) The gaskets are damaged.	a) Clean/replace the gaskets. b) Replace the headwork.
3. Water too cold	a) There is no enough hot water flowing through the mixer. b) The boiler system does not give enough hot water. c) The hot water inlet is restricted.	a) Set the regulation handle towards the hot water side. b) Increase the temperature of the water fed from the boiler. c) Check for any restriction on the pipeline
4. Water too hot	a) There is not enough cold water flowing through the mixer. b) The cold water inlet is restricted.	a) Set the regulation handle towards the cold water side. b) Check for any restriction on the pipeline.
5. Temperature varies during use.	a) Temperature has decreased below the minimum required.	a) Wait for the hot water to be restored.
6. Fluctuation of temperature of the mixer water	a) Inverted connections. b) Inverted mixer.	a) Use a “reverse” cartridge. b) Invert the mixer

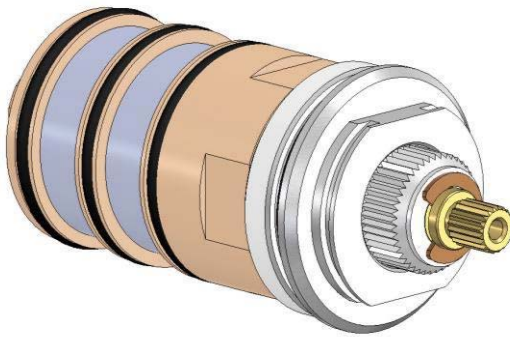


Rain Therapy

Increasing of the temperature by turning clockwise. Decreasing of the temperature by turning anti-clockwise	a) Inverted connections. b) Inverted mixer.	a) Use a “reverse” cartridge. b) Invert the mixer.
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SPARE PARTS

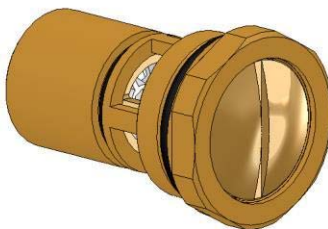
Thermostatic cartridge for built-in Ø50.

**CA33936**

Two way diverter cartridge

**CA33935**

Valve holder

**KI33843**