

# ROUGH IN VALVES

## Installation Manual

**MB439 - SV9INC.219 EU**

**MB440 - SV9INC.220 EU**

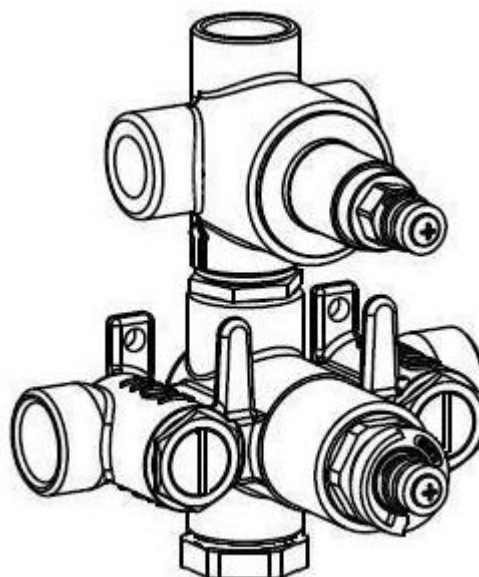
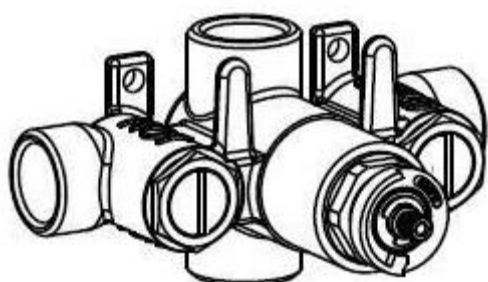
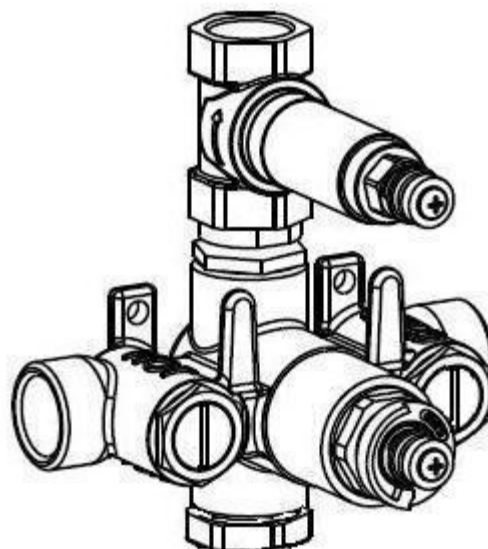
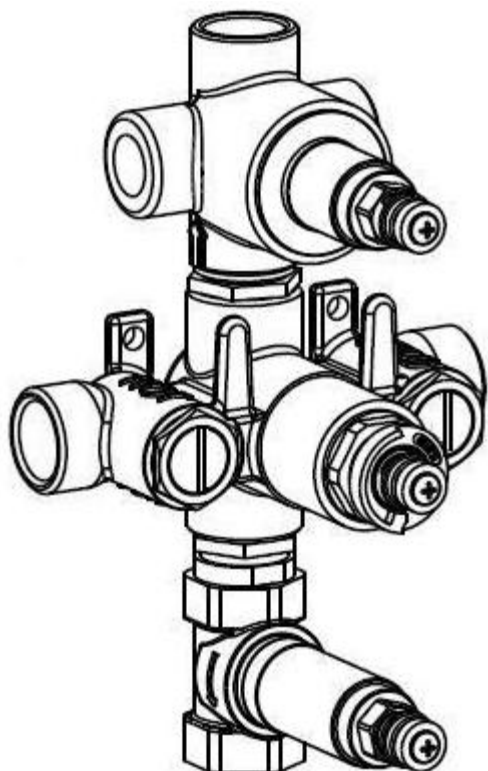
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## **GENERAL FEATURES**

**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 (185° F)

Recommended: 65°C (149° F)

Minimum: 5°C (41° F)

Minimum difference between hot and mixed temperature 10°C (50° F)

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 (145 psi)

Minimum: 0,1 bar (1,5 psi)

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 (72 psi) a pressure reducing valve

Keep a gap in the wall between Ø125 and Ø130 mm (Ø4 7/8" and Ø5 1/8") for allowing removal of protection cover and for future maintenance access.

## **TECHNICAL DATA**

The mixer is supplied with covers for the installation at a depth from 51 to 67 mm from (2" to 2+5/8") the centre of the mains tube to the finished wall.

The temperature control knob is pre-set from the manufacturer at 38°C (100° F) with stop at 44°C +/-2°C. (111° F +/- 36° F)

The mixer ports are supplied with a female thread G 3/4" or NPT 3/4".

## **PLUMBING RECOMMENDATIONS**

- ◆ An independent hot and cold water supply is required for the shower system.
- ◆ The recommended pipe work should be minimum 22 mm (0+7/8") for low pressure systems.
- ◆ If more than one shower mixer is installed, the minimum feed should be 28mm (1+3/32") (ensure adequate end constant supply of both hot and cold water)
- ◆ **READ CAREFULLY THIS MANUAL BEFORE USING YOUR MIXER AND KEEP IT AT HAND FOR FUTURE REQUIREMENTS**

## **GENERAL FEATURES ONLY FOR MB446**

This Volume control is suitable for all plumbing systems if installed correctly by a competent and qualified installer.

### **OPERATING SPECIFICATIONS**

#### **Hot water supply temperature:**

Maximum: 85°C (185° F)

Recommended: 65°C (149° F)

Minimum: 5°C (41° F)

#### **Working pressures**

Maximum: 10 bar (145 psi)

Minimum: 0,1 bar (1,5 psi)

### **TECHNICAL DATA**

The mixer is supplied with covers for the installation at a depth from 51 to 67 mm (2" to 2+5/8") from the centre of the mains tube to the finished wall.

The connection ports are supplied with a female thread G 3/4" or NPT 3/4".

### **PLUMBING RECOMMENDATIONS**

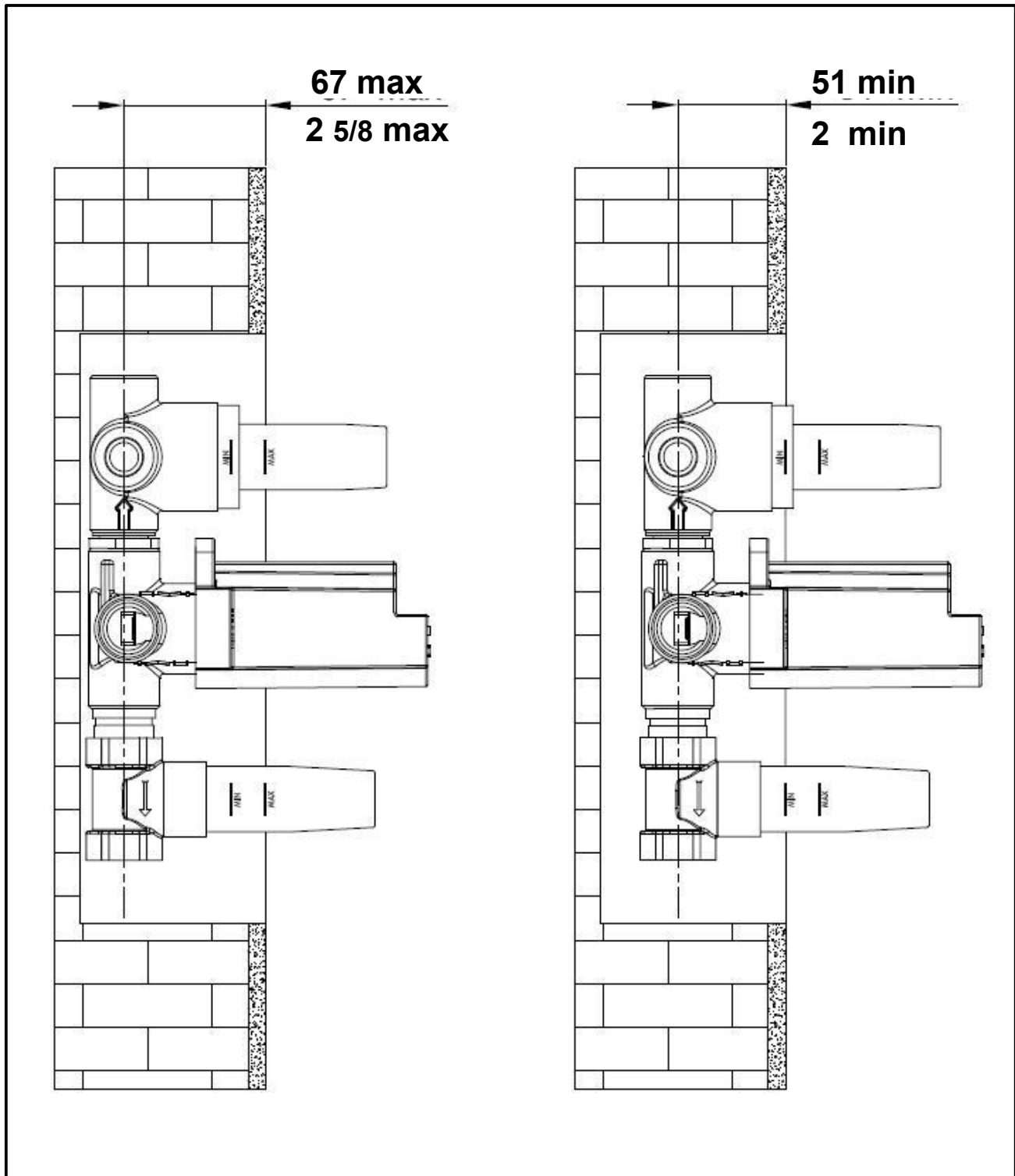
- ◆ The recommended pipe work should be minimum 22 mm (0+7/8") for low pressure systems.
- ◆ **READ CAREFULLY THIS MANUAL BEFORE USING YOUR MIXER AND KEEP IT AT HAND FOR FUTURE REQUIREMENTS**

## INSTALLATION

Min and Max positions respect to the finished wall

Take into account also the thickness of tiles, marble, etc

**For final wall opening measures consider trim dimensions at pag. 6**

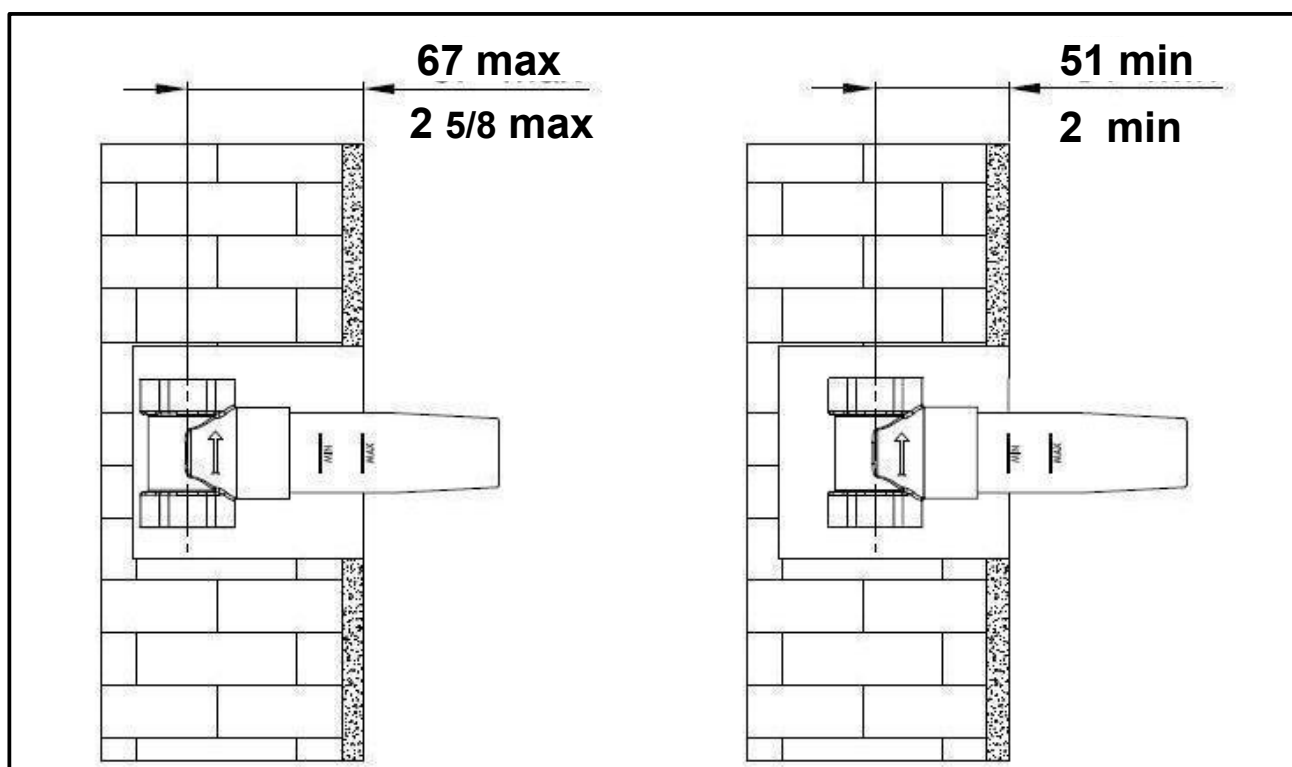
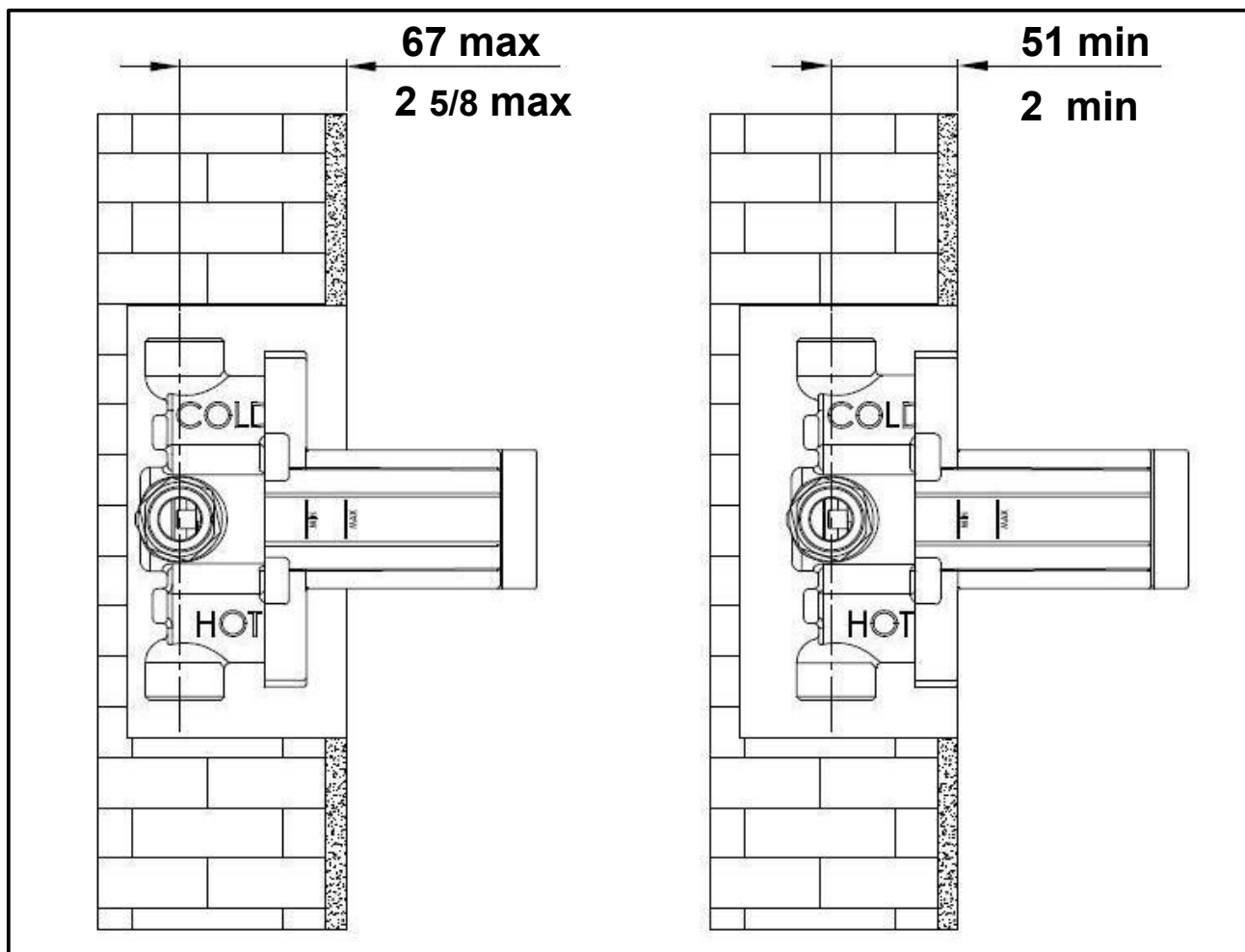


## INSTALLATION

Min and Max positions respect to the finished wall

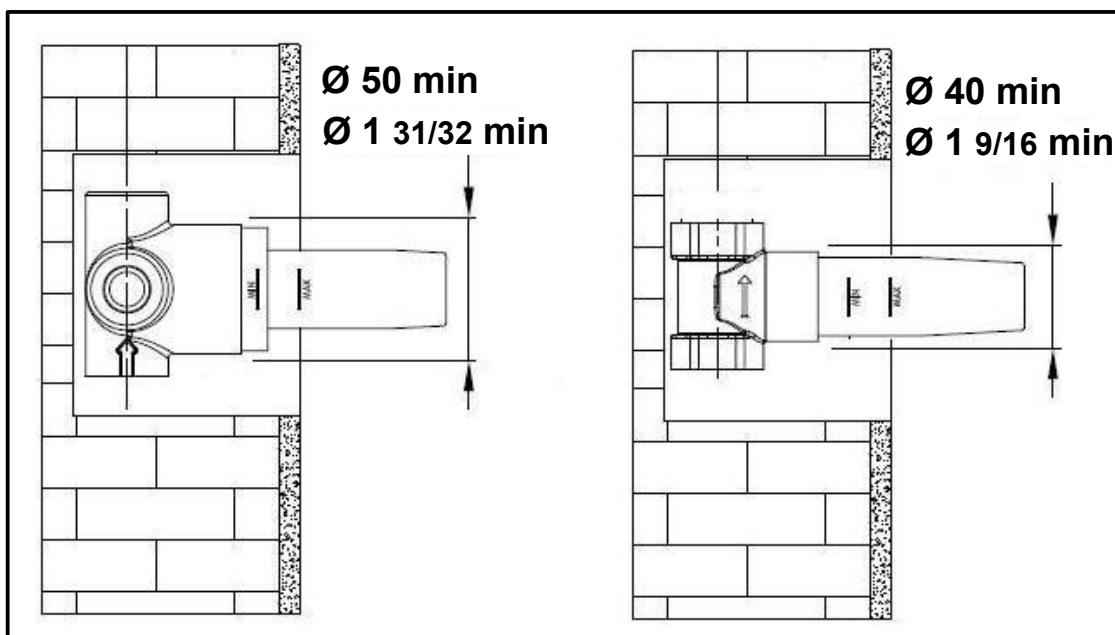
Take into account also the thickness of tiles, marble, etc

For final wall opening measures consider trim dimensions at pag. 6



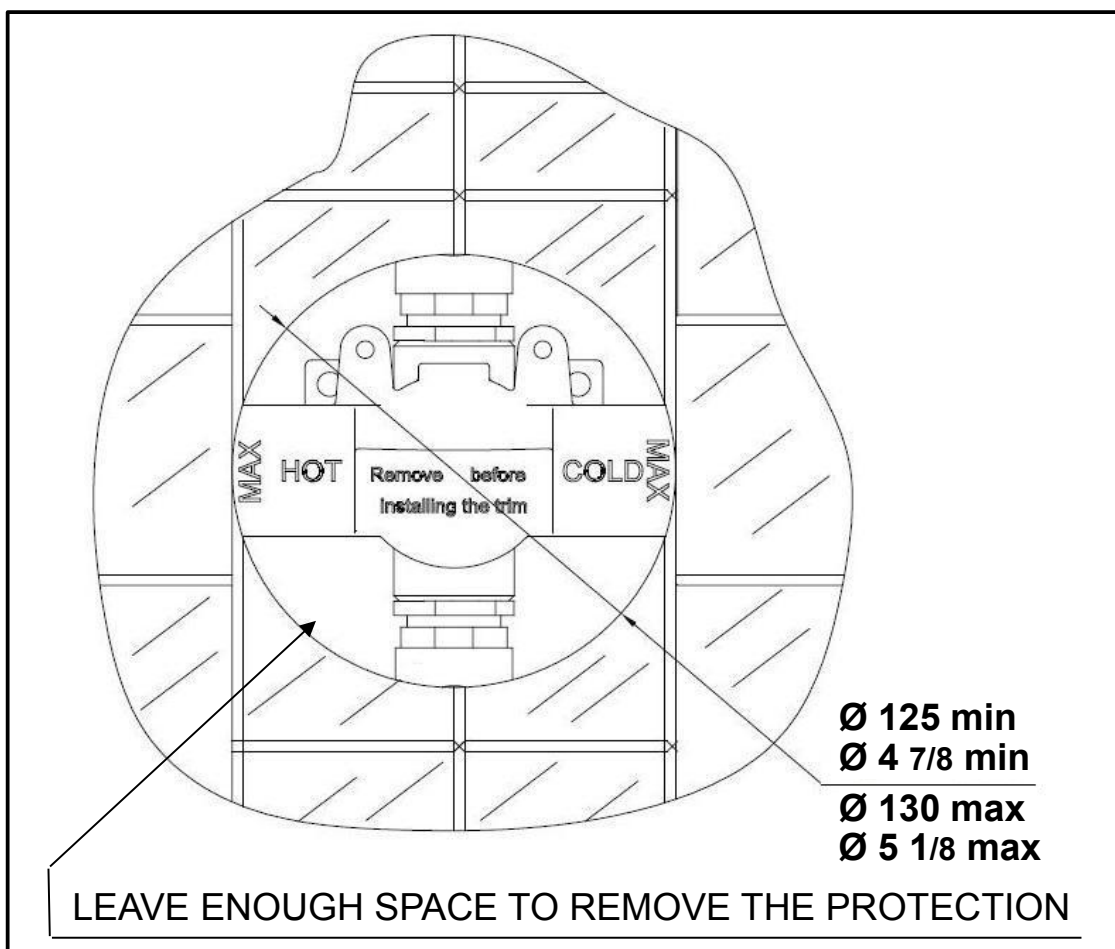
## INSTALLATION

### Wall gap measurement for Diverter and Volume control



### Wall gap for Thermostatic mixer

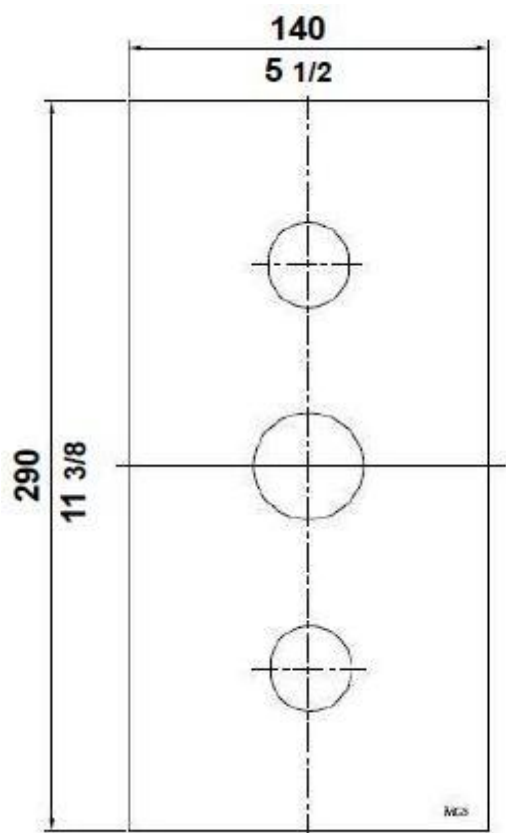
Keep a gap in the wall between  $\text{Ø } 125$  and  $\text{Ø } 130 \text{ mm}$  ( $\text{Ø } 4 \frac{7}{8}$ " and  $\text{Ø } 5 \frac{1}{8}$ "") for allowing removal of protection cover and for future maintenance access.



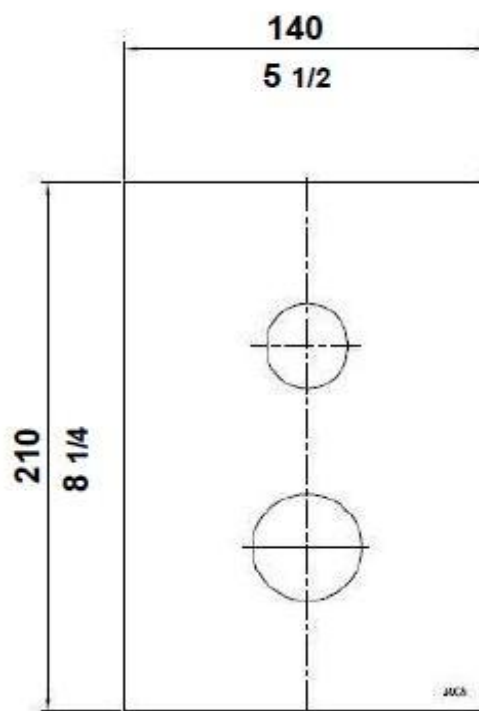
For final wall opening measures consider trim dimensions at pag. 6

## INSTALLATION

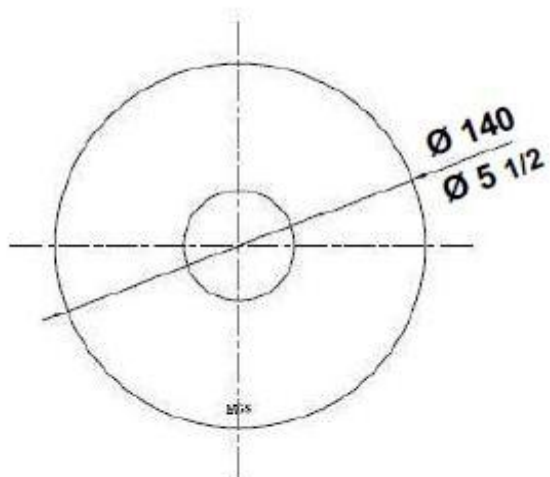
Trim plate measurements according to indicated models



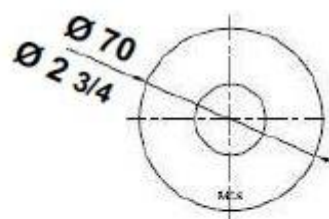
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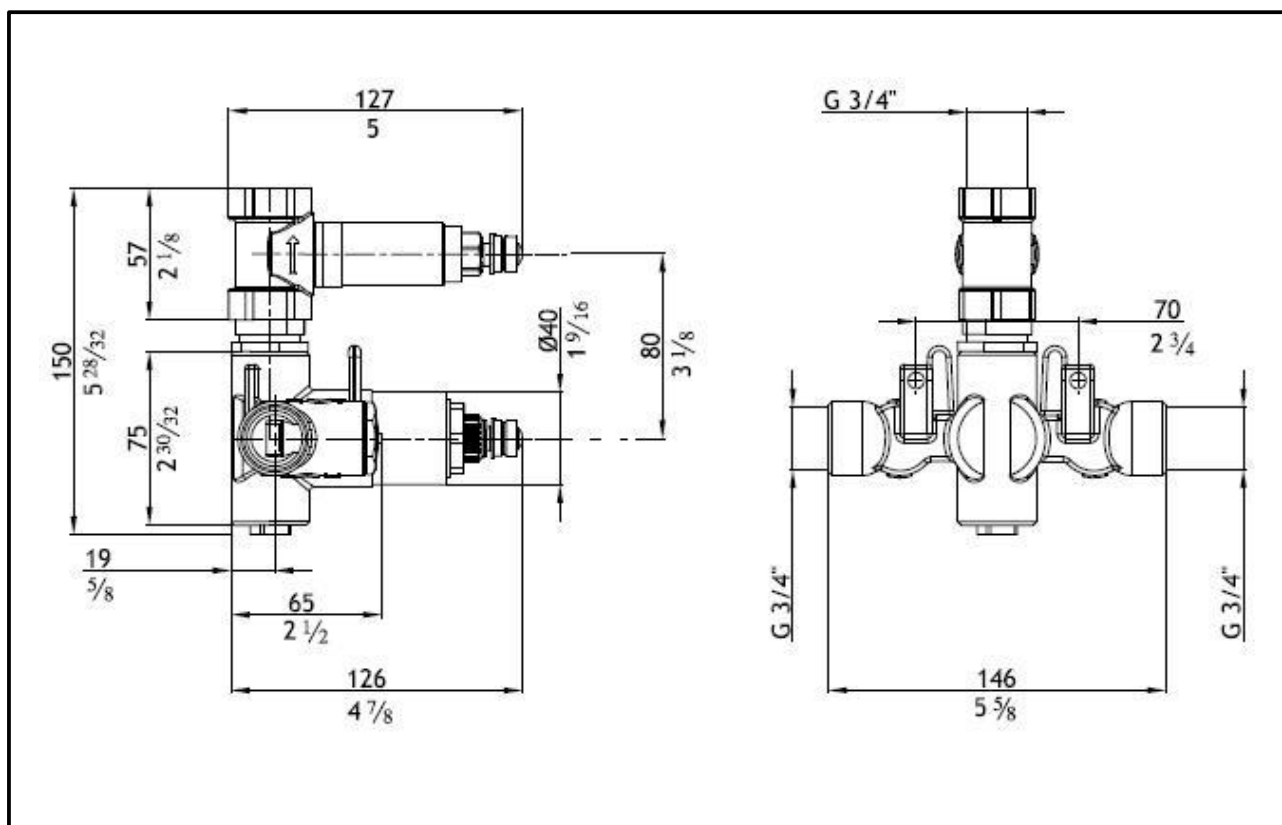
**MB444**



**MB446**

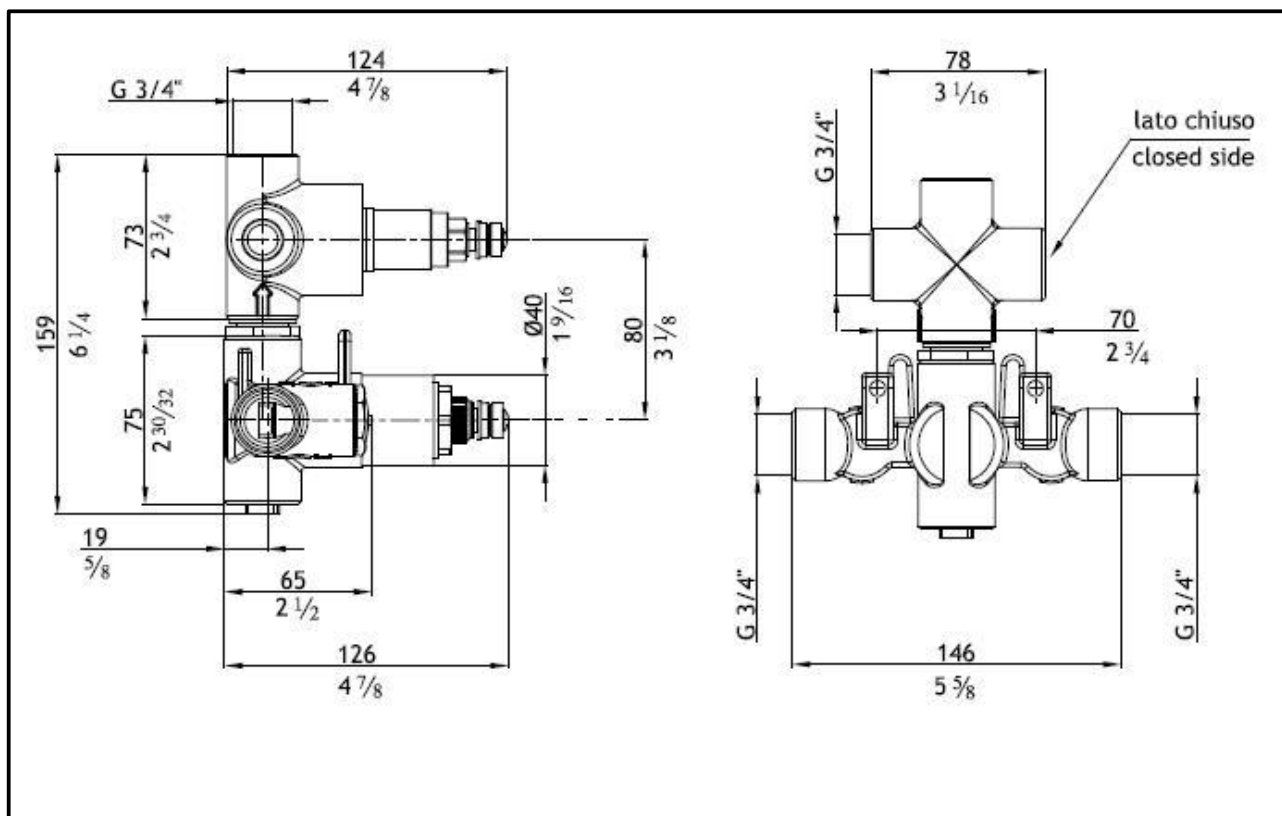
### **THERMOSTATIC SHOWER MIXER - VOLUME**

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### **THERMOSTATIC SHOWER MIXER - 2 WAY DIVERTER**

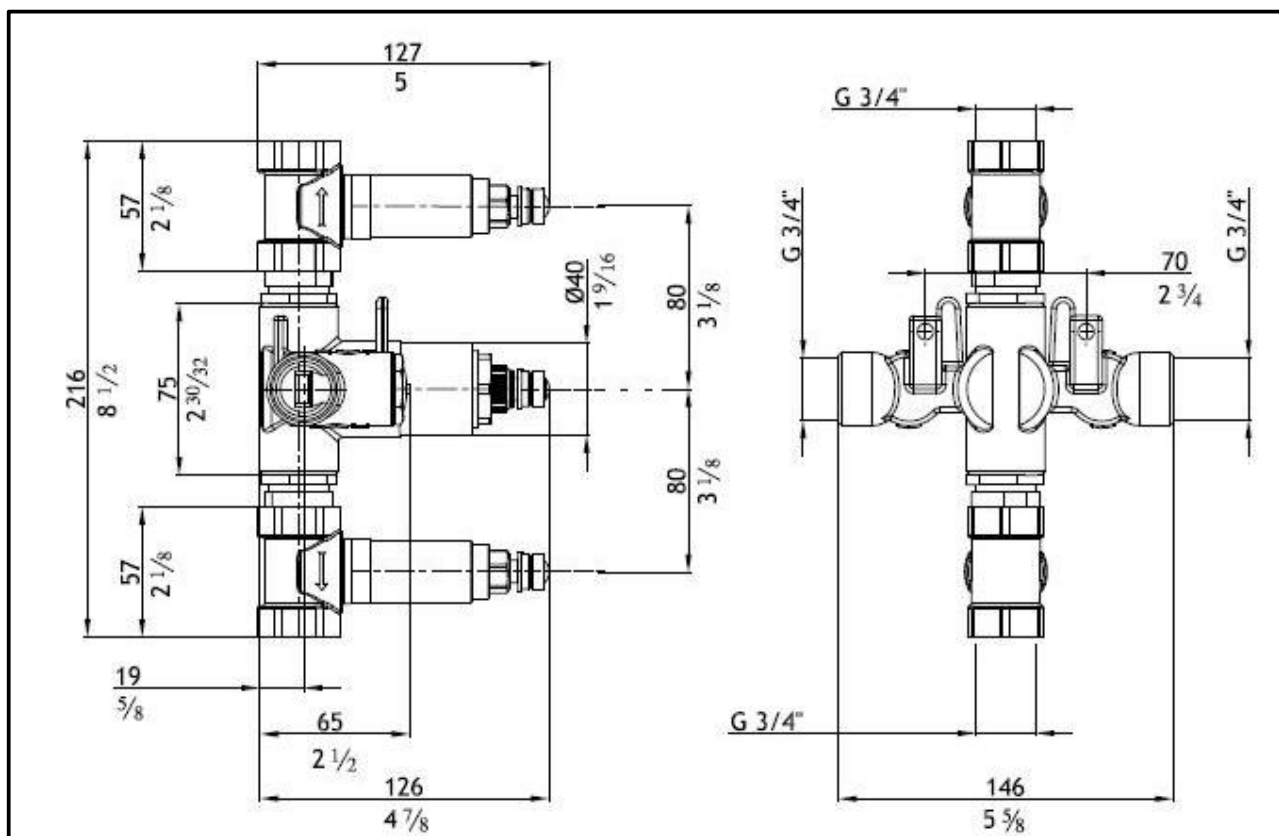
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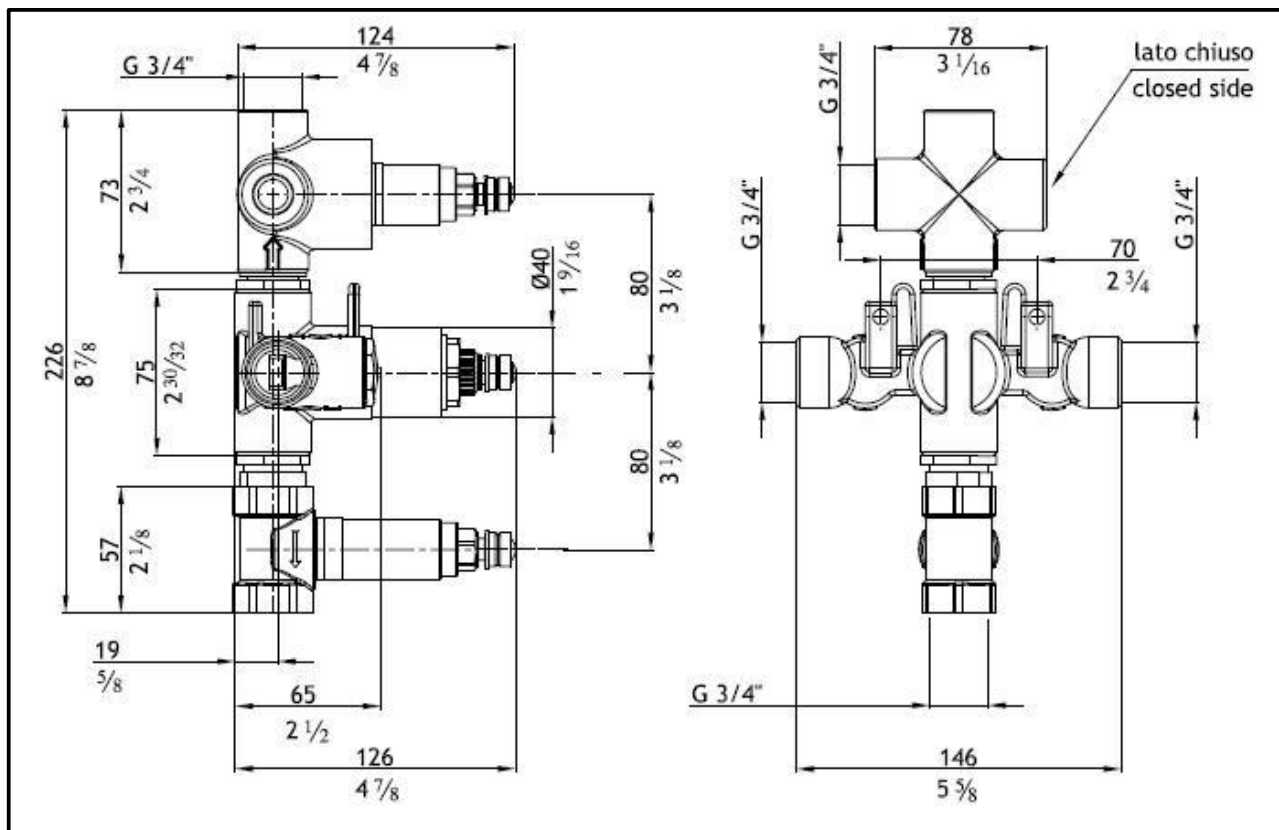


## **THERMOSTATIC SHOWER MIXER - 2 VOLUME**

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**THERMOSTATIC SHOWER MIXER - VOLUME, 2 WAY DIVERTER**

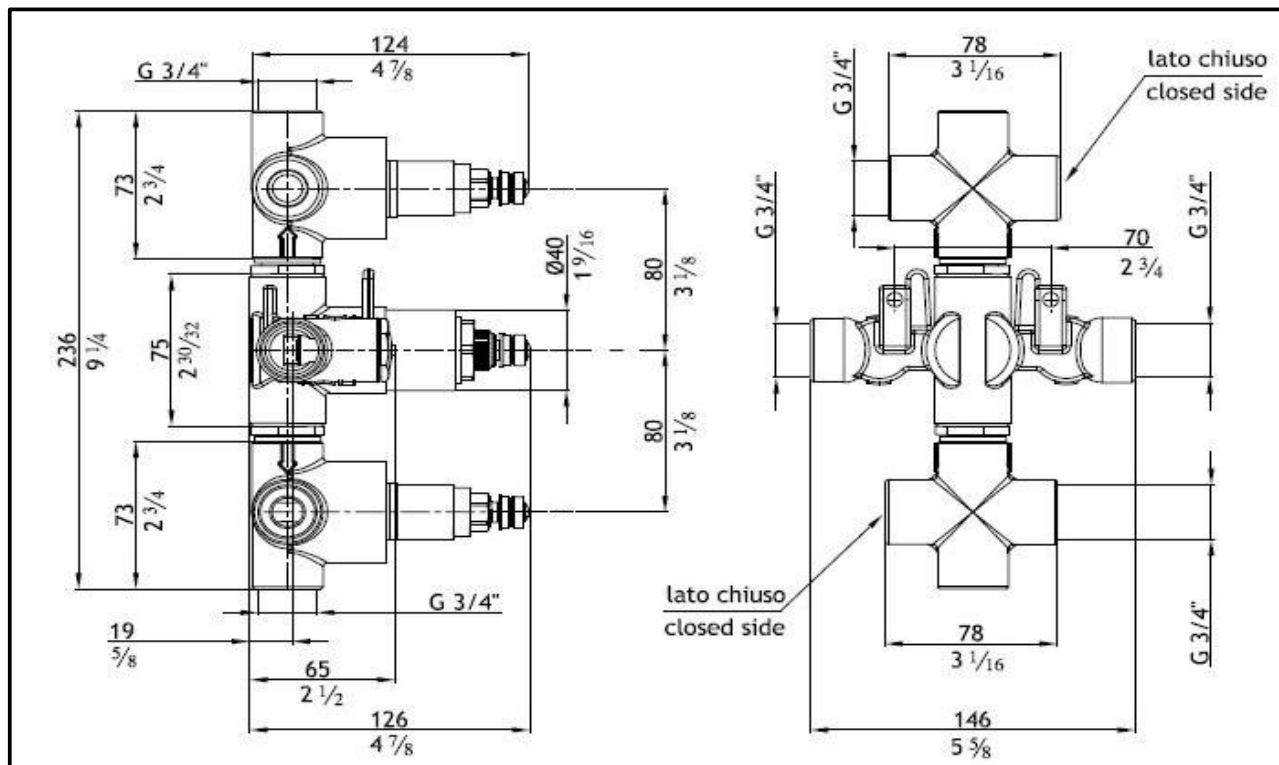
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## ROUGH IN VALVE DIMENSIONAL DRAWINGS

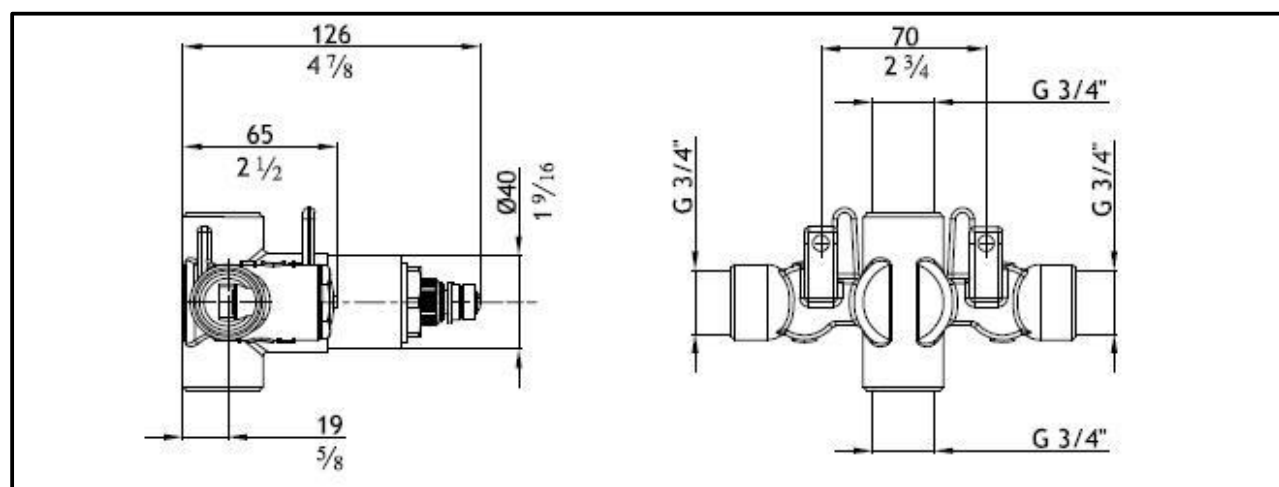
### THERMOSTATIC SHOWER MIXER - 2X2 WAY DIVERTER

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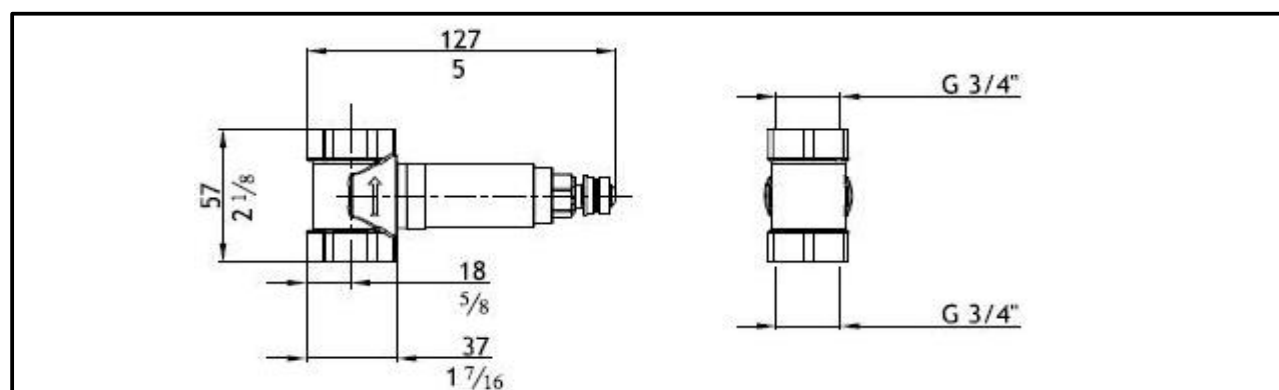
### THERMOSTATIC SHOWER MIXER

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### VOLUME CONTROL

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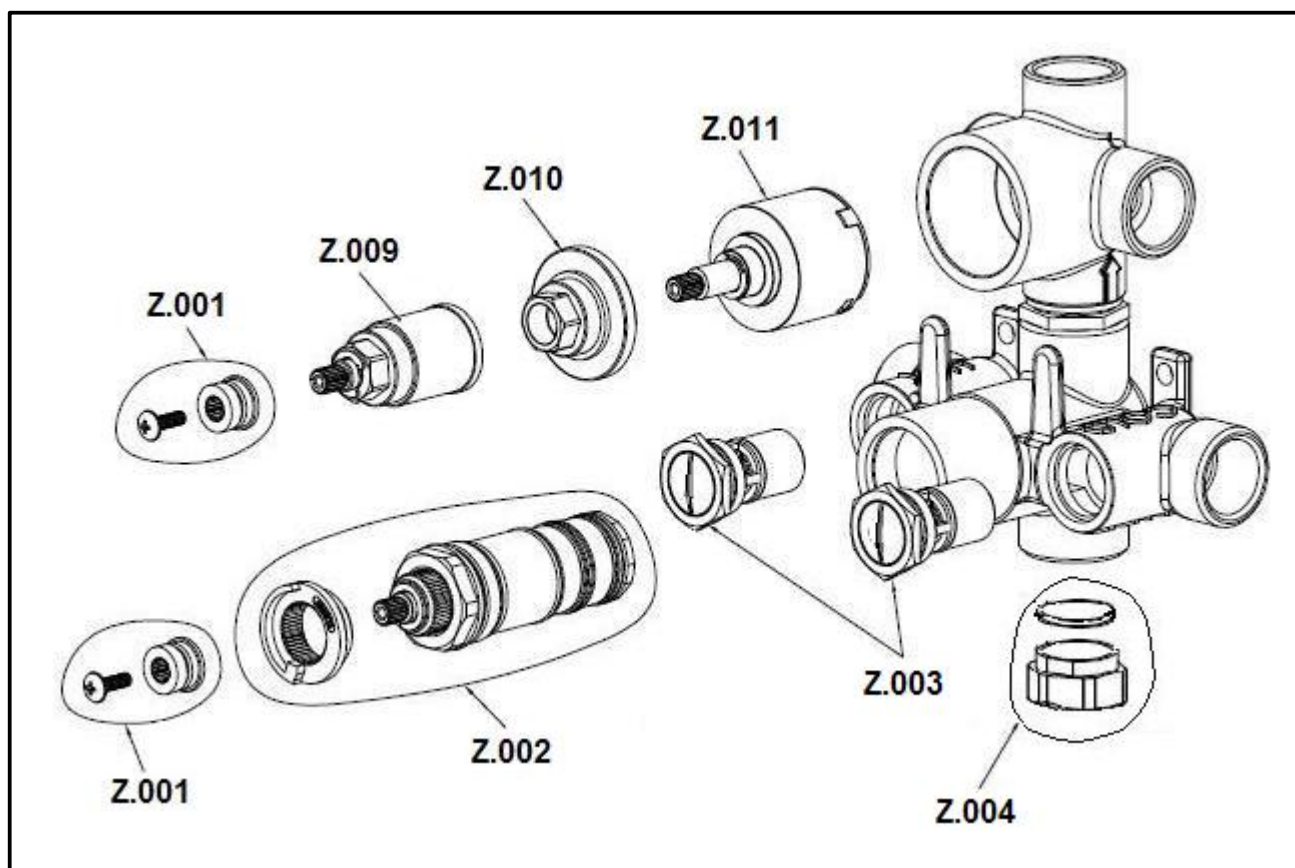


### **THERMOSTATIC SHOWER MIXER - VOLUME**

This diagram illustrates the exploded view of a water meter assembly. The components are labeled as follows:

- Z.001**: Two small circular components, likely O-rings or seals, shown in two locations.
- Z.002**: The main body of the water meter, featuring a central threaded port and a flange at the bottom.
- Z.003**: A cylindrical component with a flange, likely a cover or a protective cap.
- Z.004**: A small circular component, possibly a gasket or a seal, shown in a circular inset.
- Z.005**: A long, cylindrical component with a threaded end, likely a screw or a bolt.
- Z.006**: A small, cylindrical component with a threaded end, likely a screw or a bolt.

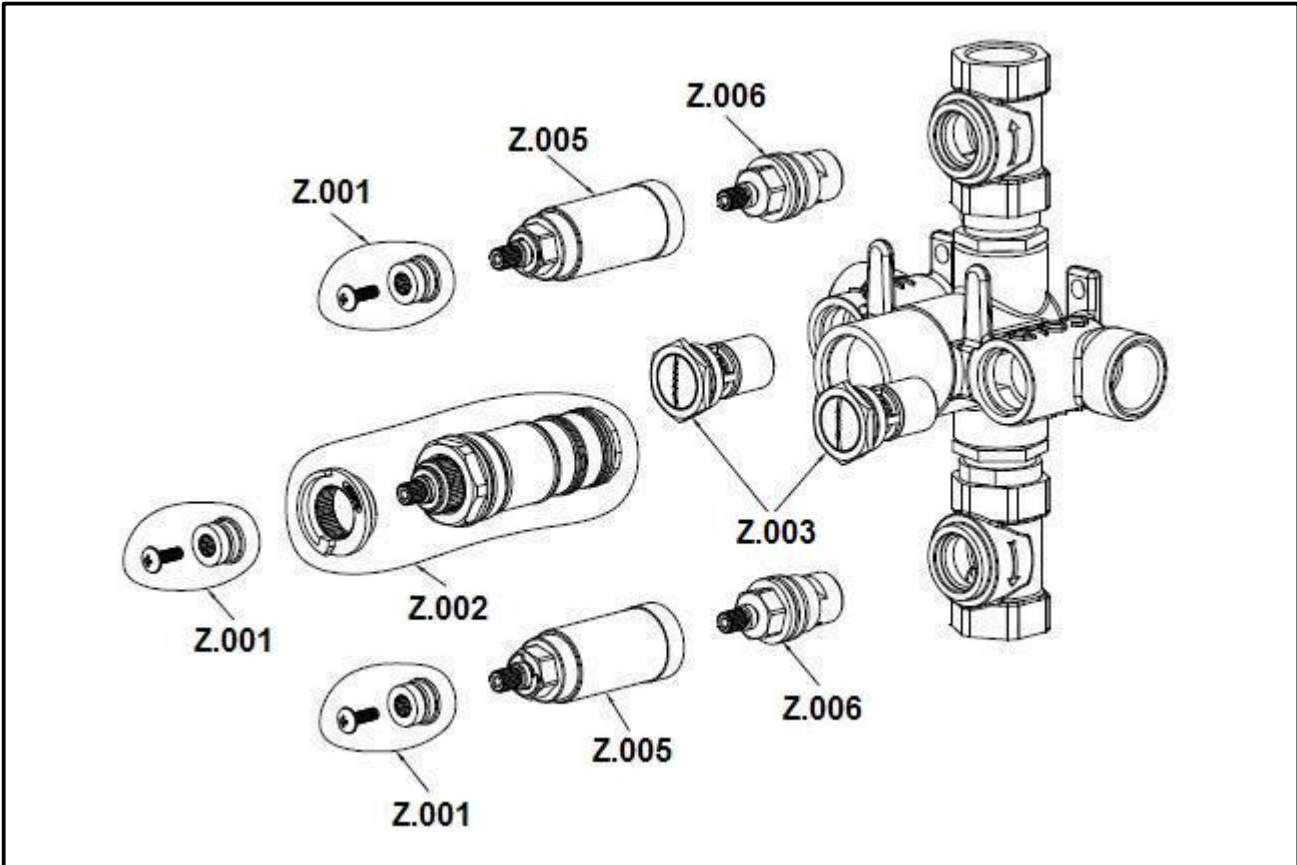
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**SPARTS PARTS ROUGH IN VALVE**

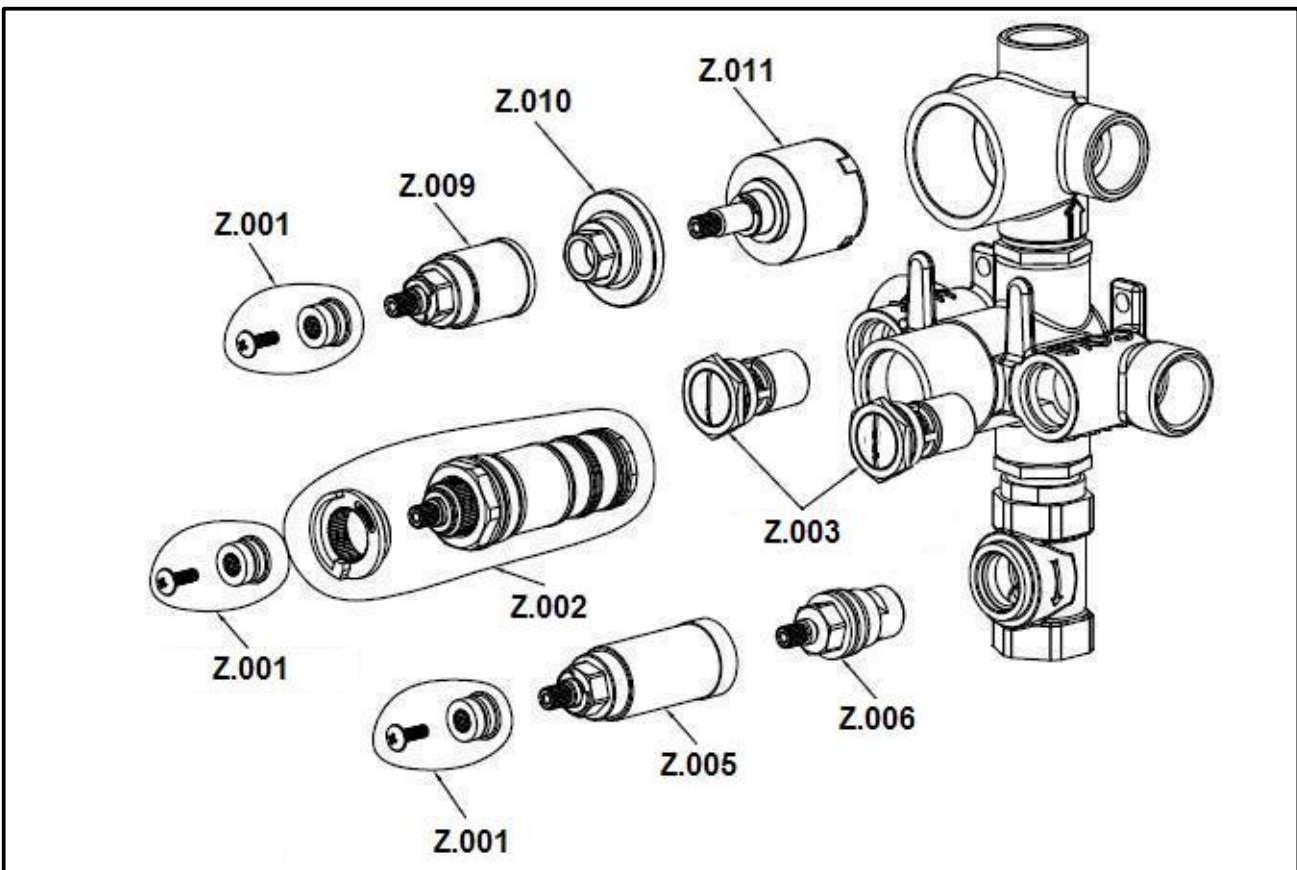
**THERMOSTATIC SHOWER MIXER - 2 VOLUME**

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**THERMOSTATIC SHOWER MIXER - VOLUME, 2 WAY DIVERTER**

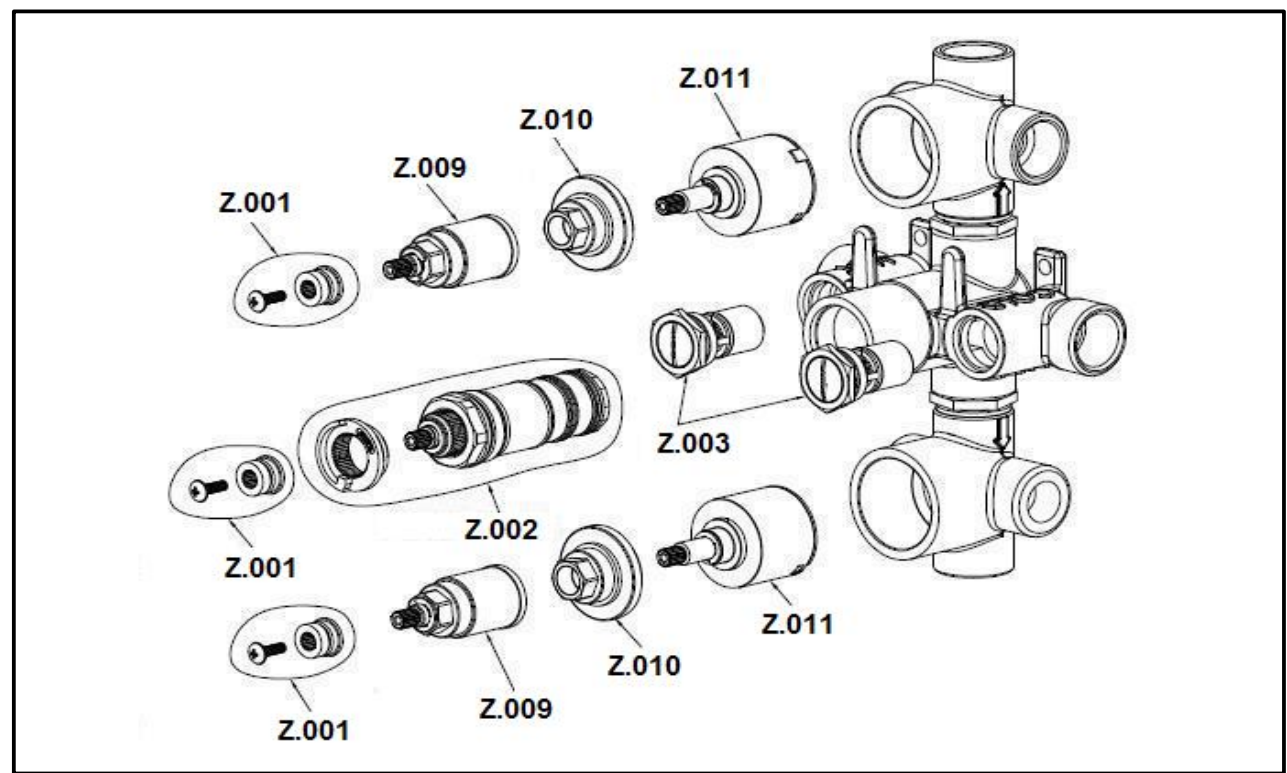
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**SPARTS PARTS ROUGH IN VALVE**

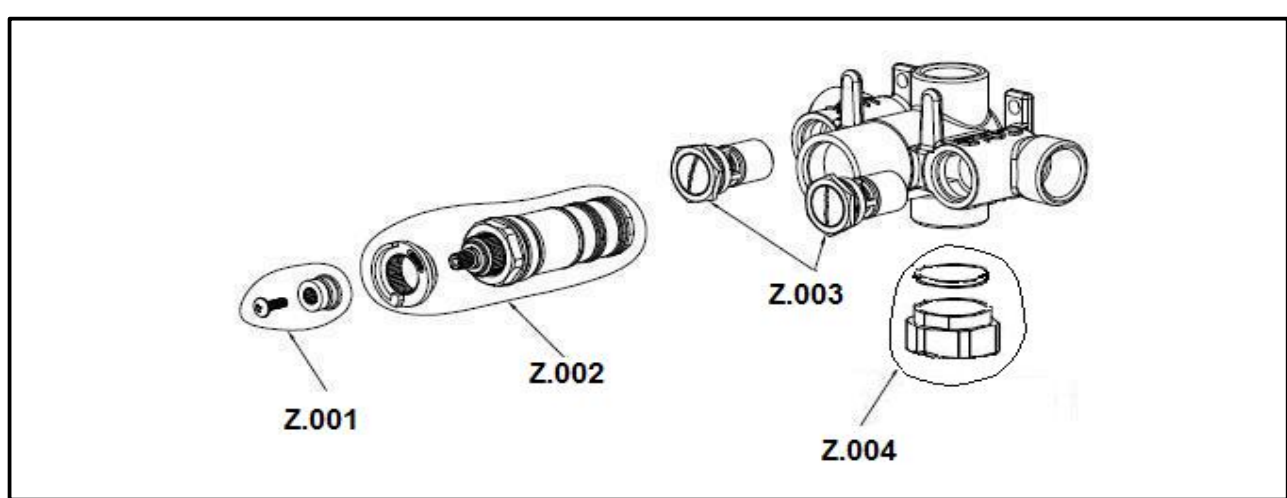
**THERMOSTATIC SHOWER MIXER - 2X2 WAY DIVERTER**

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**THERMOSTATIC SHOWER MIXER**

**MB444 - SV9INC.224 EU**



**VOLUME CONTROL**

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