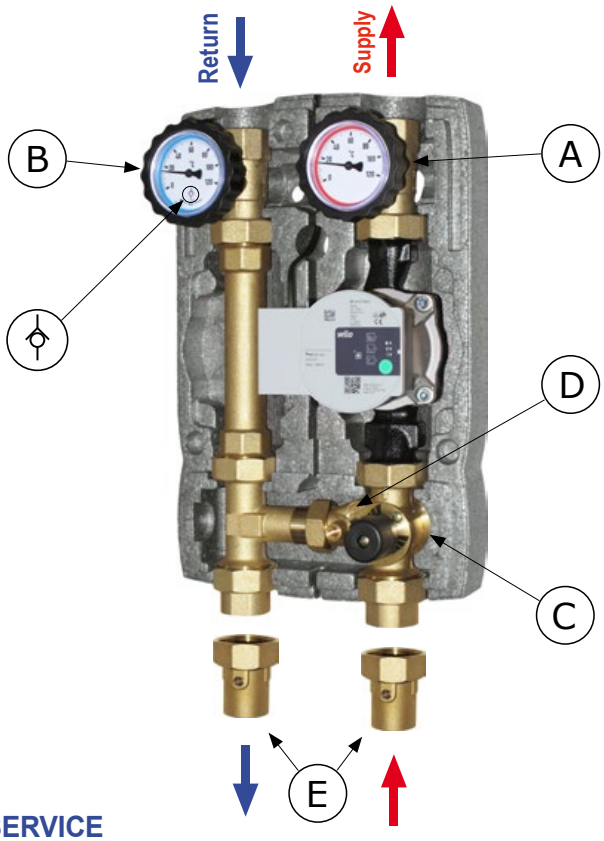
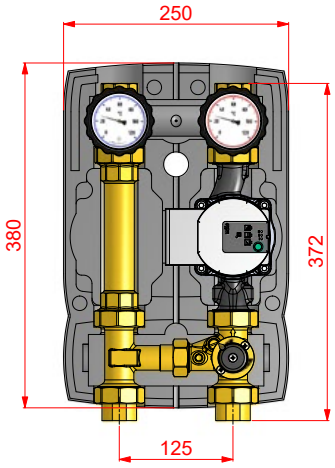
M2 MIX3/MIX33 MIXED PUMP UNITS - DN25 SERIES

Installation instructions



DIMENSIONS

EPP insulation box: the insulation covering includes a central inside part that hugs the circulating pump and that allows the passage of the cable of the circulating pump. Outlets for the passage of the cables towards the upper part and the lower part of the insulation box.
Dimensions: 250x380x170 mm.

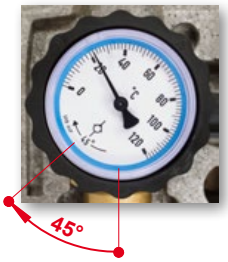


SERVICE

We recommend you to install two isolation ball valves **(E)** (optional) before the pump unit to allow an easy service or replacement of the pump unit components. In this case close the valves **(A)**, **(B)** and **(E)** by rotating the relevant controls clockwise. Once the service is over, open again the valves and restore the pressure of the installation.

20 mbar CHECK VALVE

It is always inside the ball valve **(B)** of the return way, it prevents the natural circulation of the fluid (thermosiphon effect). The check valve can be excluded by rotating the handle by 45° clockwise from the opening position.



TECHNICAL FEATURES

PN 10. Maximum temperature 110°C (calculated with pump unit without circulating pump)
Available external connections: 1" F

FIELD OF USE

M2 MIX3 PUMP UNITS:
For power up to 35 kW (with Δt 20 K) and maximum flow of 1500 l/h.
Kvs value: 6.0.

M2 MIX33 PUMP UNITS:
For power up to 31 kW (with Δt 15 K) and maximum flow of 1800 l/h.
Kvs value: 7.0.

Approximate data calculated with a 6 m head circulating pump. For an accurate measuring or higher flows, please refer to the curve of the circulating pump.

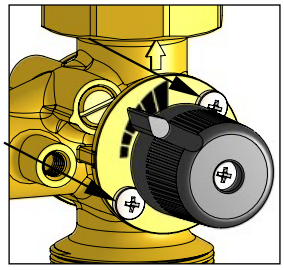
BY-PASS

M2 MIX33 pump units have an adjustable by-pass **(D)** integrated into the mixing valve **(C)**. By means of the control rod (front side adjustable) it is possible to mix to the supply way a quantity of water coming from the return way.

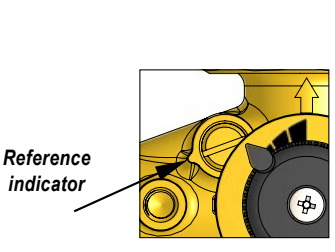
BY-PASS SETTING DIRECTIONS (M2 MIX33 MODELS)

M2 MIX33 pump units are supplied with the recirculation by-pass fully open. To adjust the quantity of recirculation through the by-pass you must move the regulation rod, that can be turned clockwise or anti clockwise indifferently. Follow these steps:

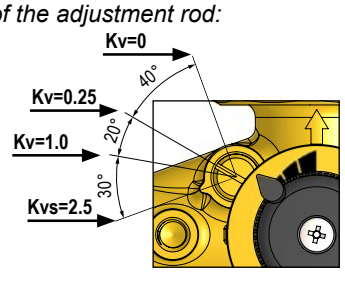
1. *Loosen the fixing screws of the handle stopper (indicated by the arrows in the image to the left) to unlock the adjustment rod of the by-pass;*
2. *Select the desired position of the adjustment rod:*



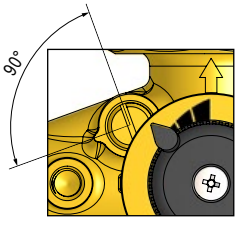
Arrows show the fixing screws of the handle stopper and of the adjustment rod.



The by-pass is **fully open** and it allows the maximum recirculation. *The screwdriver slot is lined up to the reference notch.*



The by-pass is in **an intermediate position** and it allows a partial recirculation. *As reference you can take the **Kv** values indicated in the picture.*

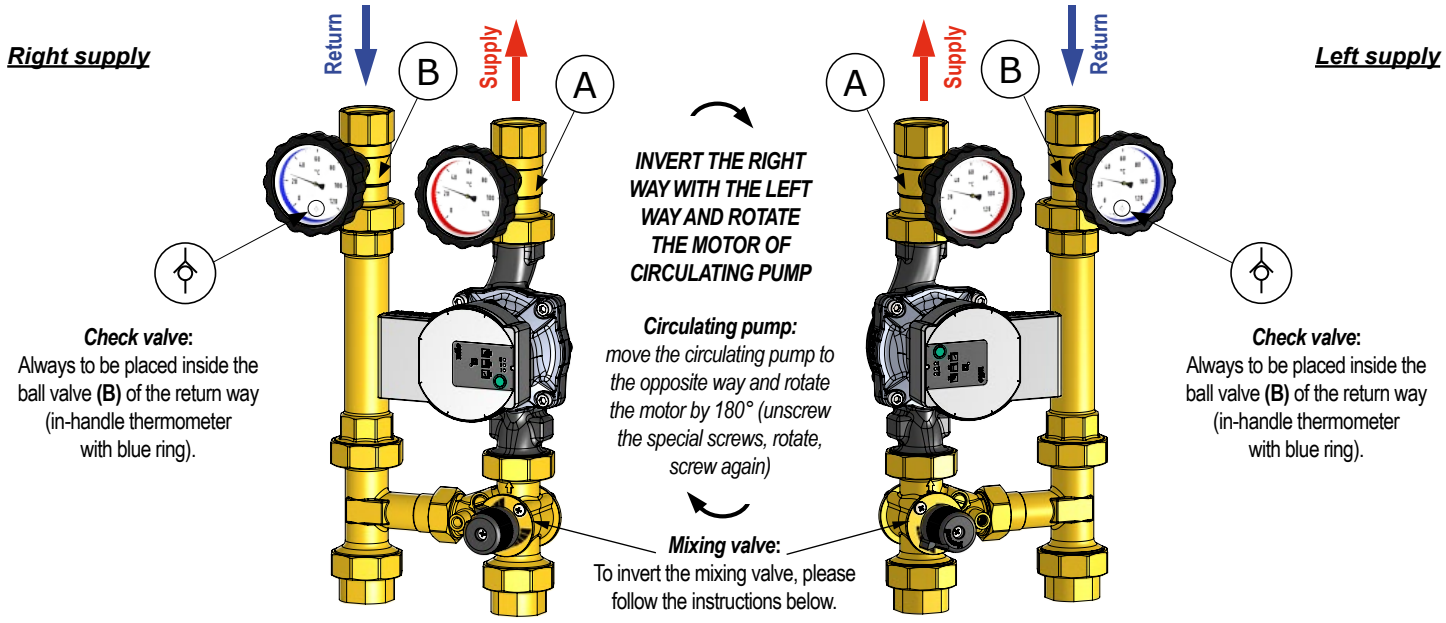


The by-pass is **fully closed** and there is no recirculation. *The screwdriver slot is in orthogonal position (90°) as to the reference notch.*

3. *Screw again the fixing screws of the stopper to lock the adjustment rod.*

INVERSION OF THE PUMP UNIT. LEFT SUPPLY

All **M2 MIX3** and **M2 MIX33** pump units can be inverted to change the supply way from right side (the most popular execution) to the left side.



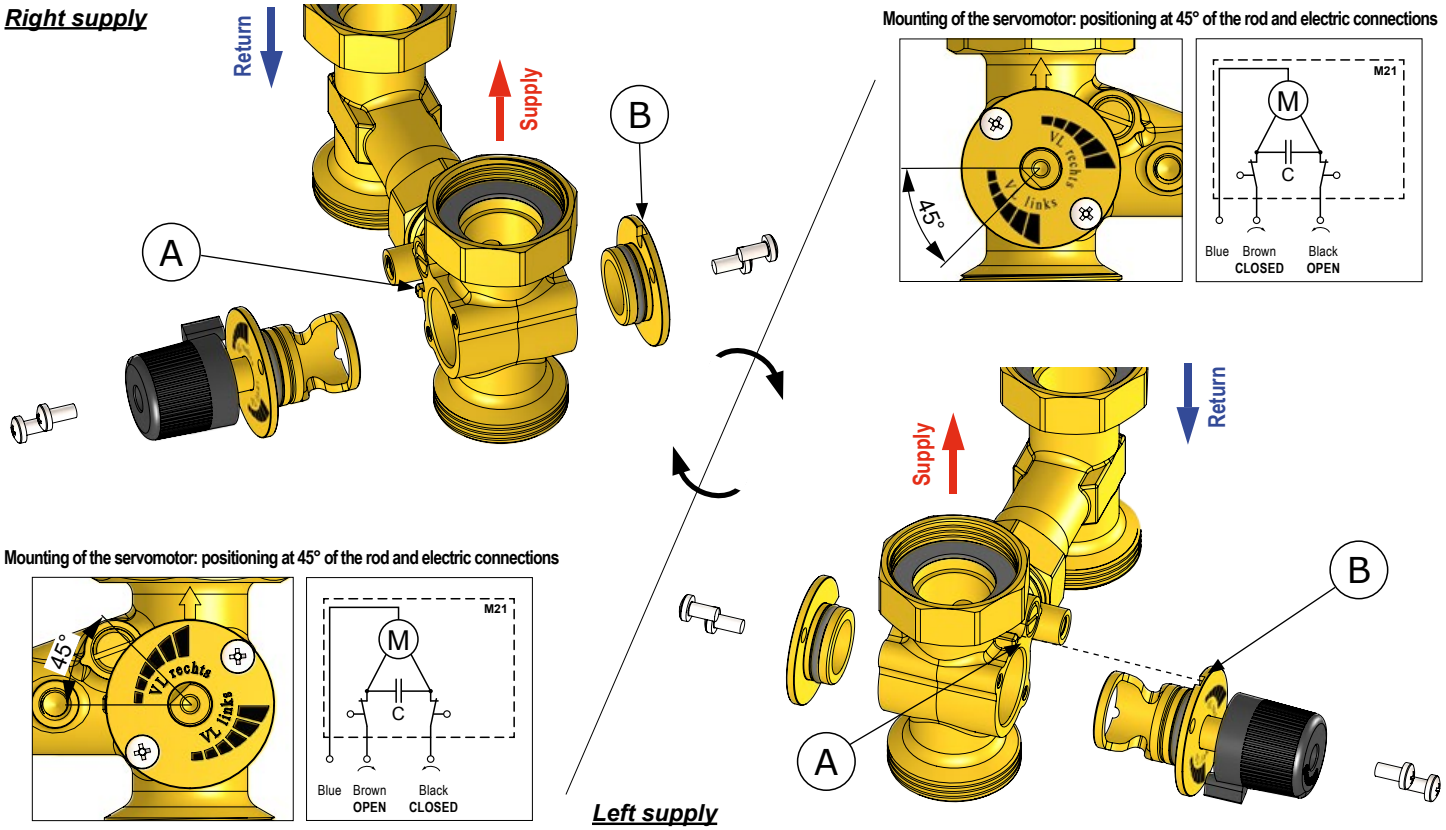
(A) Ball valve on the supply way (in-handle thermometer with red ring)
(B) Ball valve on the return way (in-handle thermometer with blue ring) with check valve

INSTRUCTIONS TO CONNECT A SERVOMOTOR AND TO INVERT THE MIXING VALVE

Mounting of servomotor: turn the knob placing it with an angle of 45° as shown in the illustrations below, remove the knob (taking care not to turn the rod) and mount the servomotor by means of the special kit included in the package.

Inversion of the mixing valve from right to left supply. Please follow the directions:

1. Remove the fixing screws of the rod plug and of the back plug; then take out the components as shown in the illustration.
2. Mount again the components in the inverted position, following the illustrations and make sure to match the reliefs on the body **(A)** with the respective seats **(B)** for both plugs. Screw again the four fixing screws.
3. Place the knob indicator on the scale **"VL links"** for the left supply, or **"VL rechts"** for the right supply.



*For the setting and for the possible inversion of the overpressure balancing by-pass, available in the **M3** model pump units, please refer to the specific instructions sheet.*