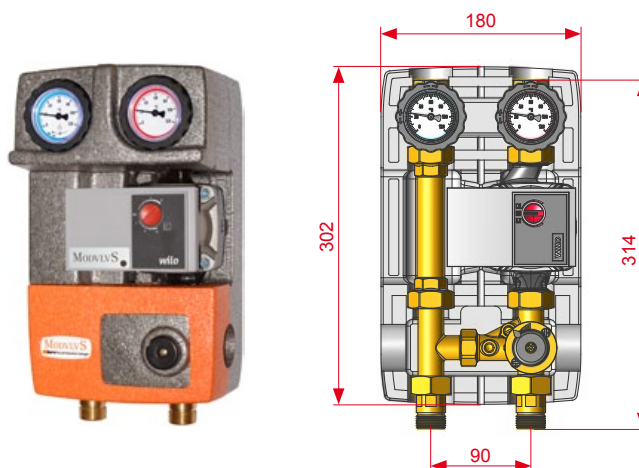


MEASUREMENTS

EPP insulation box: the insulation covering includes a central inside part that allows the passage of the cable of the circulating pump. Outlets for the passage of cables towards the high part and the low part of the insulation box are available.

Measurements: 180x302x142 mm.



SERVICE

We recommend you to install two isolating 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 ended, open again the valves and restore the pressure of the installation.

TECHNICAL FEATURES

PN 10. Maximum temperature 110°C

External connections:

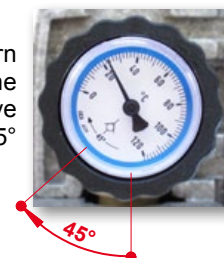
- 3/4" Male swivel union to the heat source or to the distributor.
- 3/4" Female to the users.

BY-PASS

M2 MIX33 pump units have an adjustable by-pass 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.

20mbar 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.



FIELD OF UTILIZATION

M2 MIX3 PUMP UNITS:

For power up to 28 kW (with Δt 20 K) and maximum flow of 1200 l/h. Kvs value: 4,0.

M2 MIX33 PUMP UNITS:

For power up to 23 kW (with Δt 15 K) and maximum flow of 1900 l/h. Kvs value: 5,5.

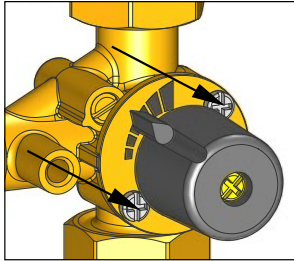
Approximate data calculated with a 6 m nominal lifting power circulating pump. For an accurate measuring or higher flows, please refer to the curves of the circulating pumps.

M2 MIX3/MIX33 MIXED PUMP UNITS - DN20 SERIES

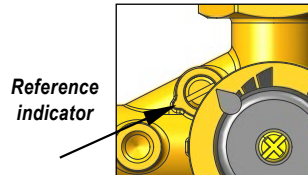
BY-PASS SETTING DIRECTIONS (M2 MIX33 MODELS)

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

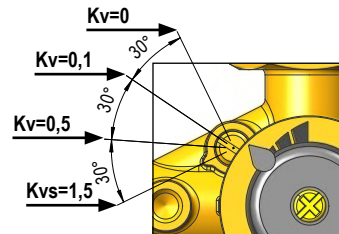
1. Loosen the fixing screws of the handle stopper (indicated by the arrows in the image to the left) to unlock the adjustment rod of the by-pass;
2. Select the desired position of the rod:



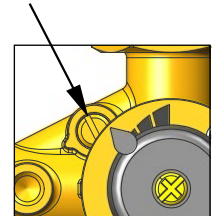
Arrows show the fixing screws of the handle stopper and of the adjusting rod.



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



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

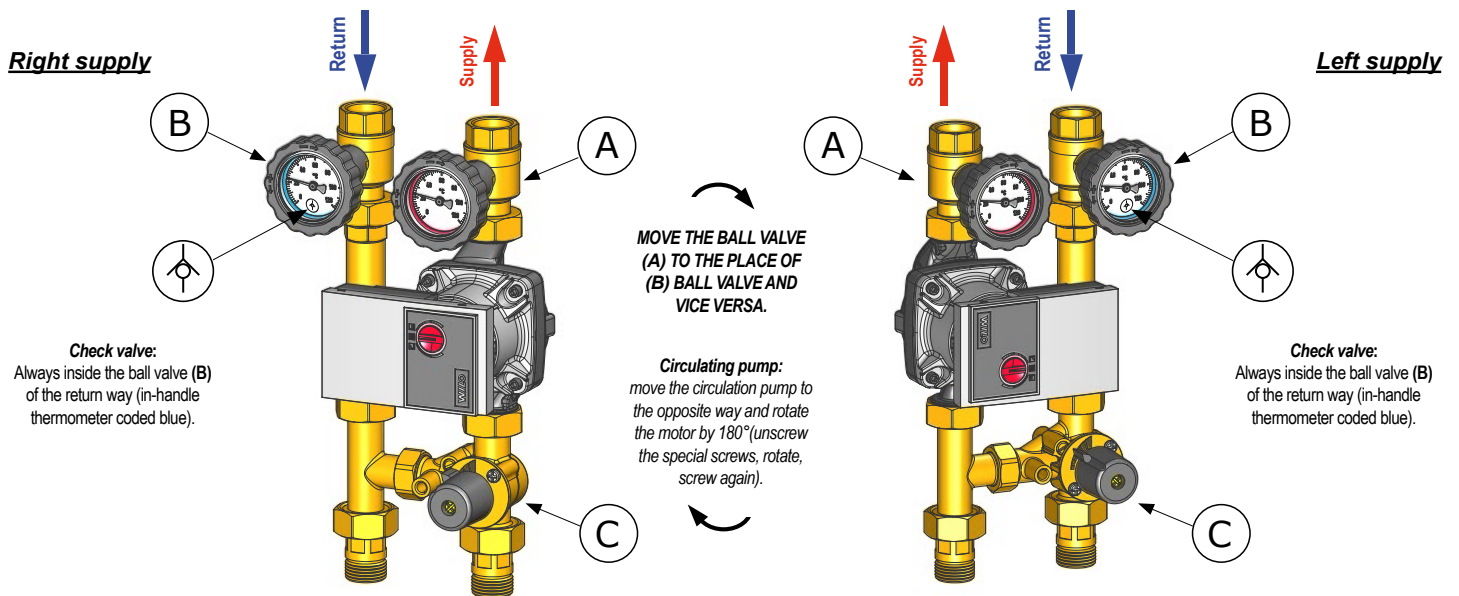


The by-pass is **fully closed** and there is no recycling. The screwdriver slot is in orthogonal position (90°) as to the reference notch.

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

INVERSION OF THE PUMP UNIT. LEFT SUPPLY.

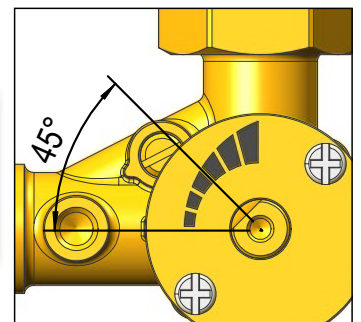
All pump units can be inverted to change the supply way from right side (the most popular execution) to the left side.



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



TAKE CARE: do not move the mixing valve (C), it stays always on the right way, also the electric wirings of the possible servomotor do not change. The mixing valve always opens clockwise. To mount the servomotor please put the control rod at 45° and refer to the special label for the electric wirings.



Mounting of servomotor: to be placed at 45° of the rod