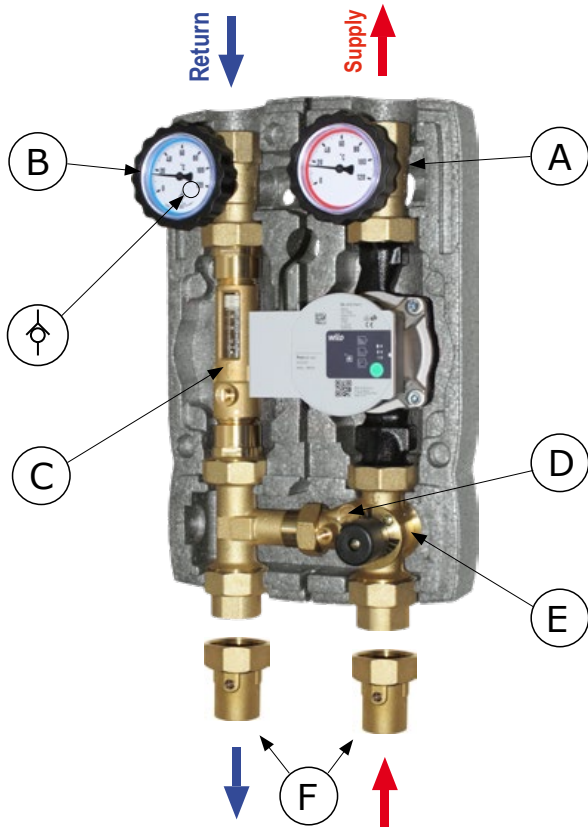




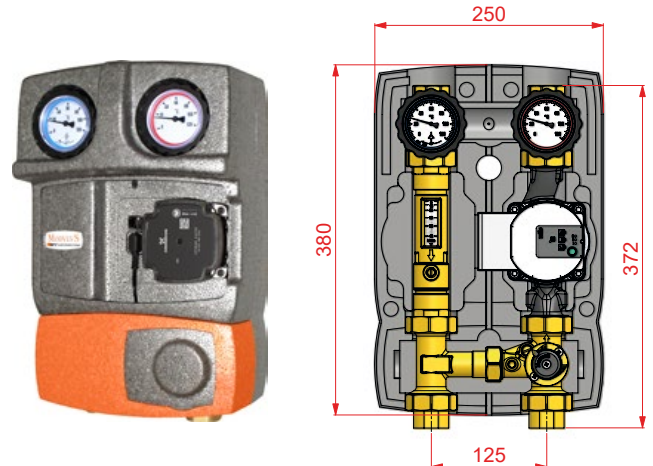
## Installation instructions



### 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.



### 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.



### FIELD OF USE

For power up to 33 kW (with  $\Delta t$  15 K) and maximum flow of 1900 l/h. Kvs value: 5,7.

Approximate data calculated with a 8 m head circulating pump. For an accurate measuring or higher flows, please refer to the curve of the circulating pump.

### SERVICE

We recommend you to install two isolation ball valves (F) (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 (F) by rotating the relevant controls clockwise. Once the service is over, open again the valves and restore the pressure of the installation.

### TECHNICAL FEATURES

PN 10. Maximum temperature 110°C (calculated with pump unit without circulating pump)

Available external connections: 1" F

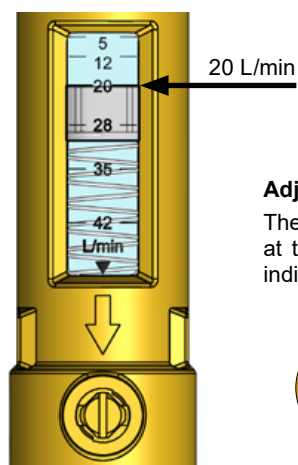
### BY-PASS

M2 MIX33 pump units have an adjustable by-pass (D) integrated into the mixing valve (E). 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.

### FLOWMETER

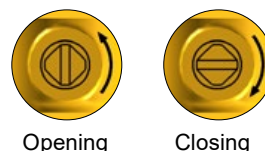
Straight flowmeter with flow regulation (C). Direct reading of the flowrate through the graduated scale.

Ball valve for flow rate adjustment. Flow rate ranges: 5-42 L/min



#### Adjustment:

The flow rate reading is to be done at the higher part of the mobile indicator.

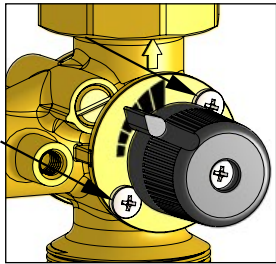


# M2 MIX33 PDC MIXED PUMP UNITS - DN25 SERIES

## BY-PASS SETTING DIRECTIONS (M2 MIX33 MODELS)

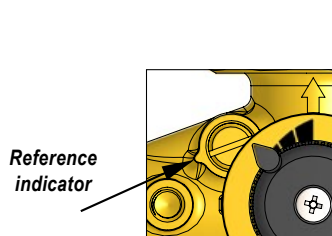
M2 MIX33 pump units are supplied with the recirculation by-pass fully open. To adjust the quantity of recirculation through the by-pass you must move the regulation rod, that can be turned clockwise or anti clockwise indifferently. Follow these steps:

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;

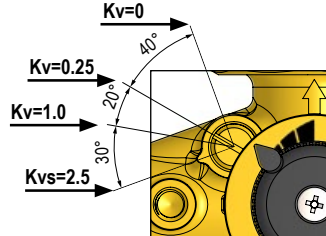


Arrows show the fixing screws of the handle stopper and of the adjustment rod.

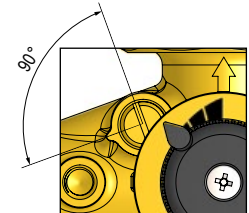
2. Select the desired position of the adjustment rod:



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.



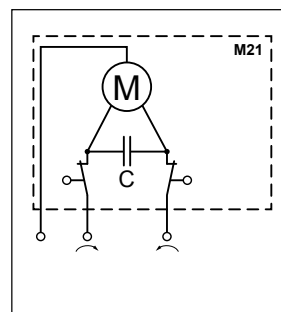
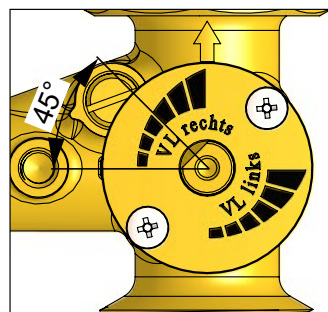
The by-pass is **fully closed** and there is no recirculation. The screwdriver slot is in **orthogonal position (90°)** as to the reference notch.

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

## INSTRUCTIONS TO CONNECT A SERVOMOTOR

**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.

Mounting of the servomotor: positioning at 45° of the rod and electric connections



## PERFORMANCE CURVES OF THE PUMP UNIT AND OF THE CIRCULATING PUMPS

