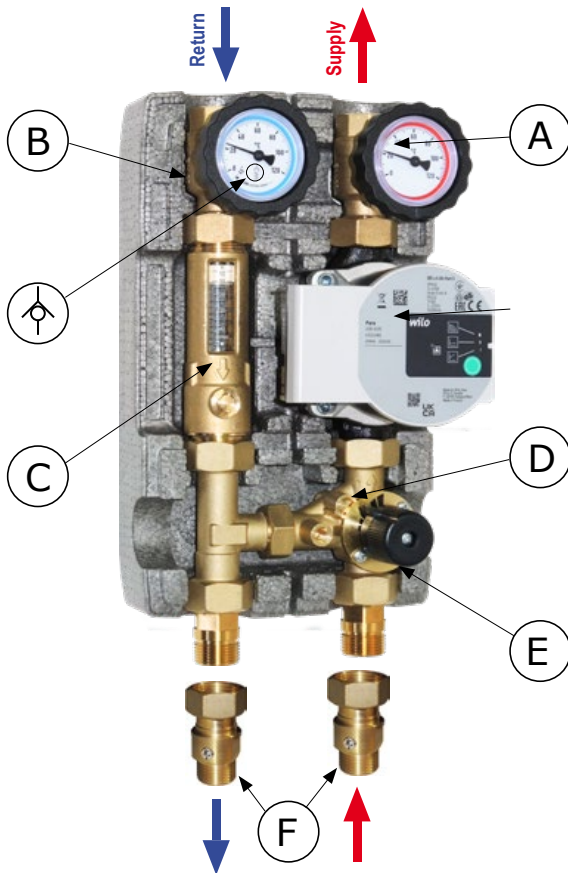




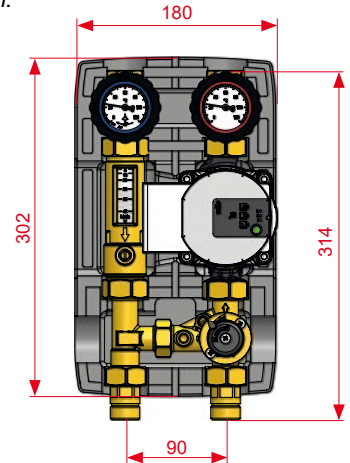
Installation instructions



MEASUREMENTS

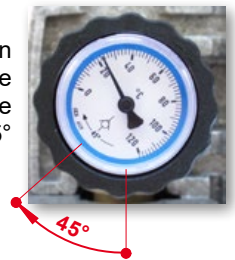
EPP insulation box: the insulation covering includes a central inside part that allows the passage of the cable of the circulating pump. Outlets for the passage of cables towards the high part and the low part of the insulation box are available.

Measurements: 180x302x142 mm.



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

For power up to 30 kW (with Δt 15 K) and maximum flow of 1700 l/h. Kvs value: 4,8.

Approximate data calculated with a 8 m nominal lifting power circulating pump. For an accurate measuring or higher flows, please refer to the curves of the circulating pumps.

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.

SERVICE

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

TECHNICAL FEATURES

PN 10. Maximum temperature 110°C

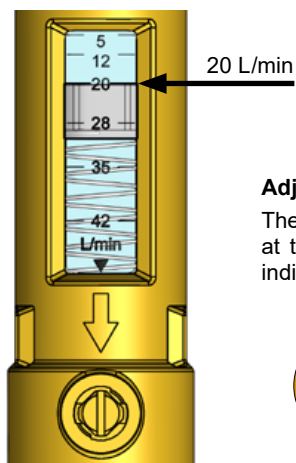
External connections:

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

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.



Opening



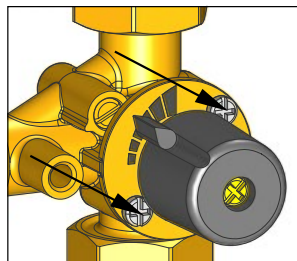
Closing

M2 MIX33 PDC MIXED PUMP UNITS - DN20 SERIES

BY-PASS SETTING DIRECTIONS

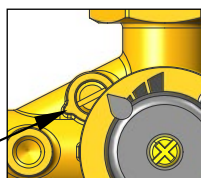
M2 MIX33 pump units are supplied with the recycling by-pass fully open. To adjust the quantity of recycling through the by-pass you must move the regulation rod, that can be turned clockwise or anti clockwise indifferently. Follow these steps:

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:

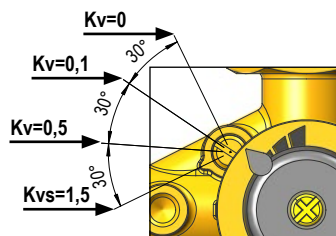


Arrows show the fixing screws of the handle stopper and of the adjusting rod.

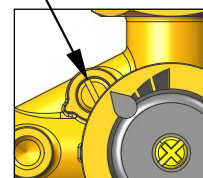
Reference indicator



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.

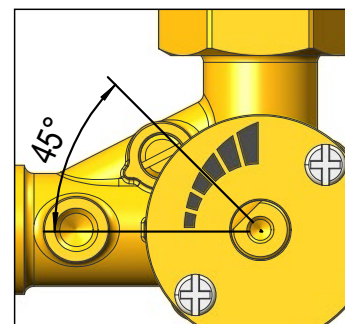


The by-pass is **fully closed** and there is no recycling. The screwdriver slot is in orthogonal position (90°) as to the reference notch.

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

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 servomotor:
to be placed at 45° of the rod

PERFORMANCE CURVES OF THE PUMP UNIT AND OF THE CIRCULATING PUMPS

