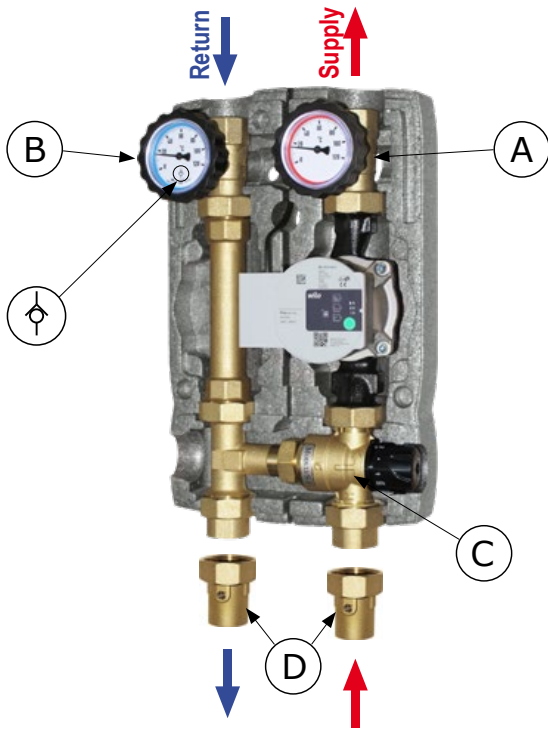




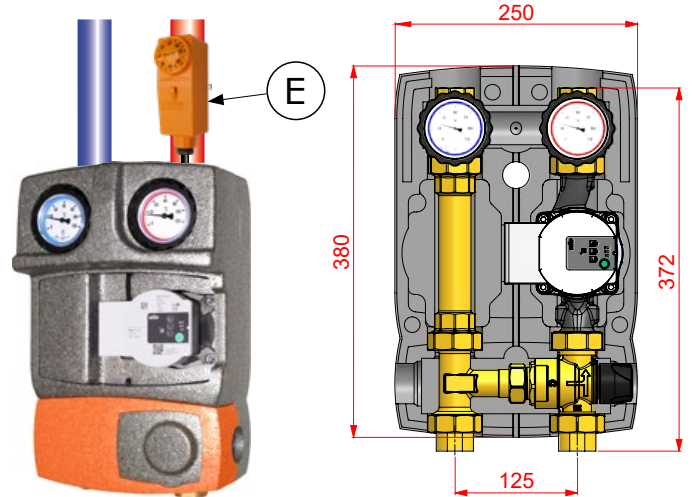
## Installation instructions



### 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 (D) (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 (D) by rotating the relevant controls clockwise. If the water is very dirty it is possible to clean the shutter of the thermic valve in an easy way (Pict. 3). Once the service is over, open again the valves and restore the pressure of the installation.

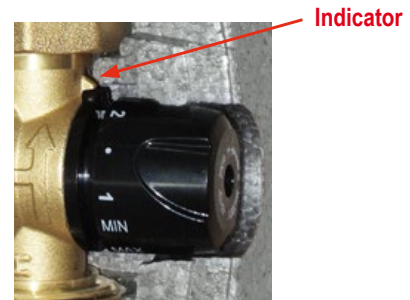
### 20 mbar CHECK VALVE

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.



### TEMPERATURE SETTING

To set the mixing temperature: rotate the knob until the reference indicator clashes with the corresponding position of the requested temperature (Pict.1). The reference positions are indicated on the knob outline: the corresponding temperature, indicated in the chart here below, is valid for the mixing valve at the standard conditions indicated here below.



Picture 1

### TECHNICAL FEATURES

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



**SAFETY:** We recommend to mount always a safety thermostat (E) on the supply pipe to avoid overtemperatures.

Knob corresponding temperature (under the test conditions *)								
Mod.	T°	MIN	1	2	3	4	5	MAX
F1 / F3	20-45°C	(24)	24	26	31	36	41	46
F2 / F4	45-70°C	42	46	52	58	63	68	70

(\*) Tests carried out in our lab, under the test conditions listed below, with a differential pressure of 1 bar: F1/F3: Th:55°C, Tc:24°C, Tmix:32°C ; F2/F4: Th:75°C, Tc:40°C, Tmix:55°C

### FIELD OF USE

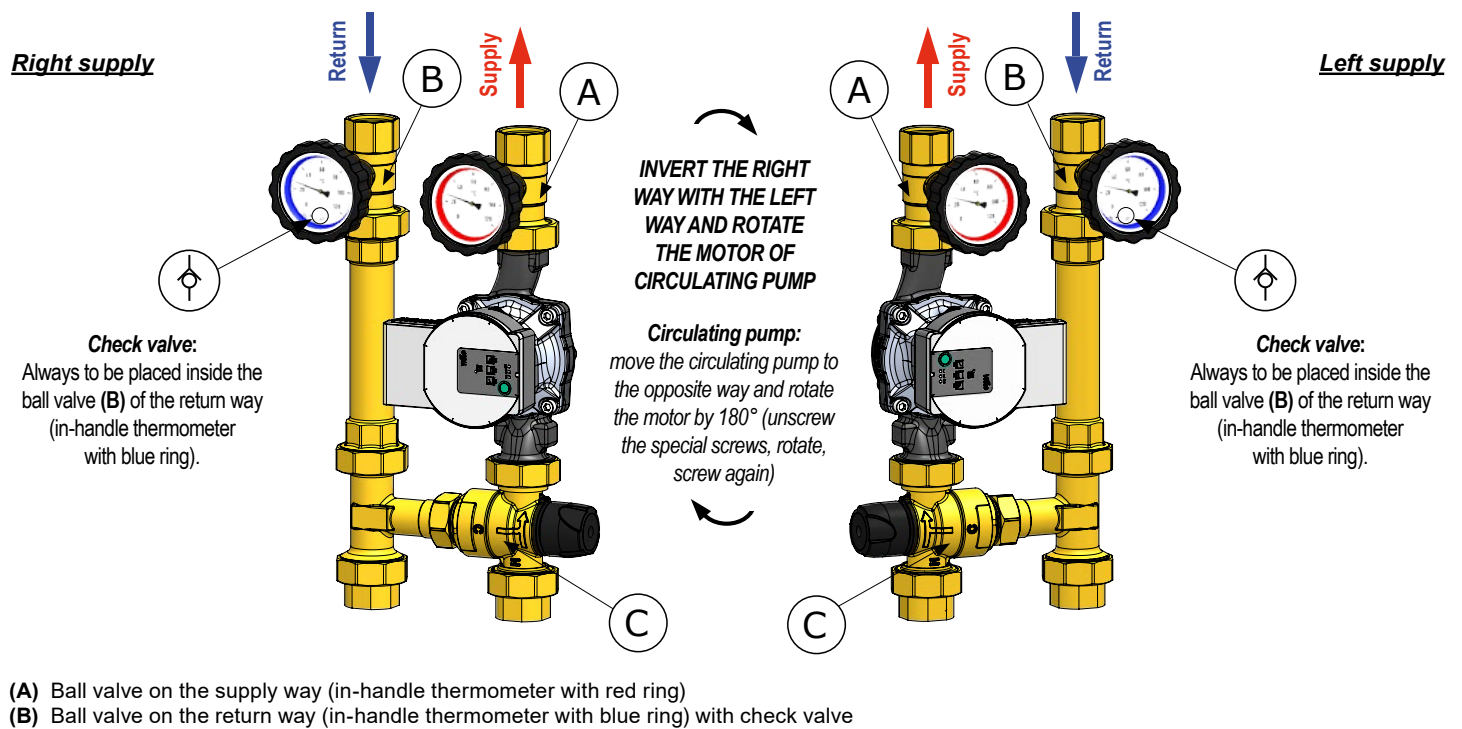
Approximate data for underfloor and radiators heating systems							
Model	Field of regulation	Δt	Kvs	Approximate power and flow of the installation	Recommended circulating pump	Residual head	Approximate surface of the underfloor heating system
F1 (**)	20-45°C	8 K	2.2	4,5 kW - 500 l/h	Wilo Para 25/6 SC	5 mH <sub>2</sub> O	Up to 50 m <sup>2</sup>
F2	45-70°C	20 K	2.2	11 kW - 500 l/h	Wilo Para 25/6 SC	5 mH <sub>2</sub> O	-
F3 (**)	20-45°C	8 K	3.3	14 kW - 1500 l/h	Wilo Para 25/8 SC	5 mH <sub>2</sub> O	From 50 m <sup>2</sup> to 150 m <sup>2</sup>
F4	45-70°C	20 K	3.3	35 kW - 1500 l/h	Wilo Para 25/8 SC	5 mH <sub>2</sub> O	-

(\*\*) Models compatible with the use in cooling applications (consistent with the setting range).

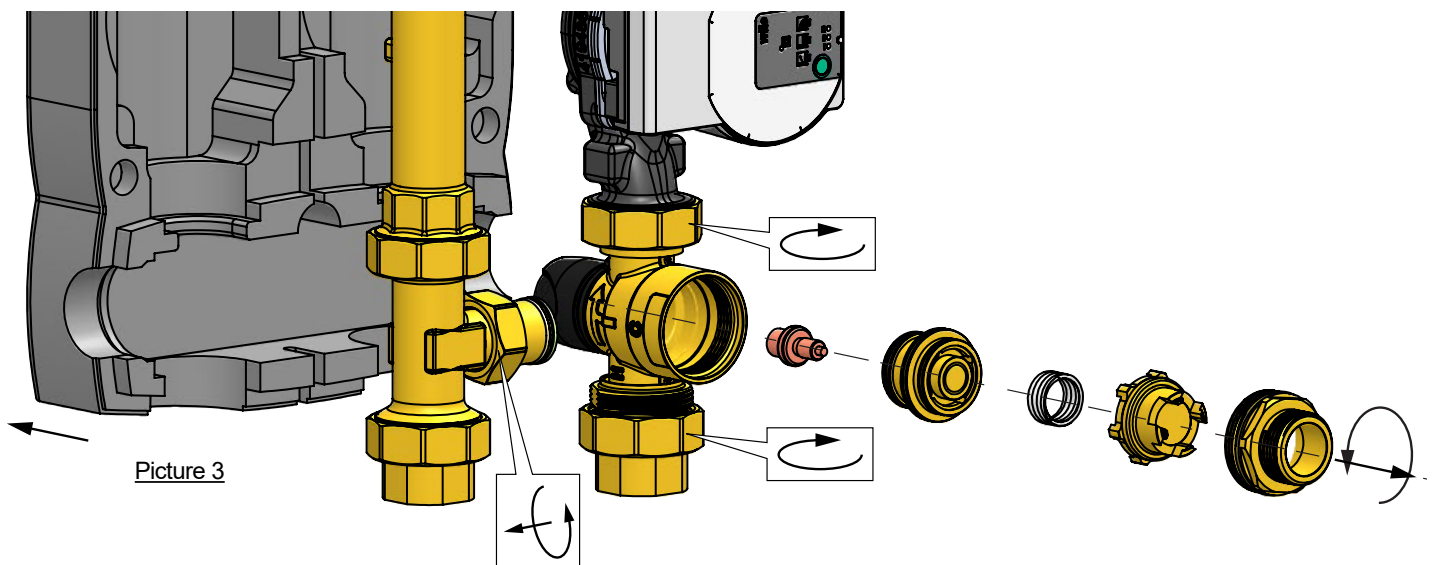
# M2 FIX3 MIXED PUMP UNITS - DN25 SERIES

## INVERSION OF THE PUMP UNIT. LEFT SUPPLY.

All M2 FIX3 pump units can be inverted to change the supply way from right side (the most popular execution) to the left side.



**TAKE CARE:** The thermostatic mixer (C) can be removed for service. Loosen the 3 nuts and draw back the nut of recirculation. Take out the gasket and rotate the body of the thermostatic mixer in order to have convenient access to cartridge. Unscrew the threaded sleeve with 42 mm hexagon by means of a suitable key. Take out the components, clean, lubricate and reassemble following the sequence of the **Picture 3**. Screw the sleeve and restore the tightening torque at 40 Nm. Place again the thermostatic mixer and in case replace the damaged gaskets. Tighten the 3 nuts.



**THERMOSTATIC MIXER:** The sensor of the thermostatic mixer MultiMix, in case of need, can fully close the inlet of recirculation (C gate). This possibility allows the pump unit to give the maximum supply temperature, the same as the one of the inlet hot water (H gate). If lower temperatures are requested, to allow a regular and continuous mixing, it is necessary that the inlet hot water temperature is 3÷5 K higher than the requested value of the outlet mixed temperature.

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.