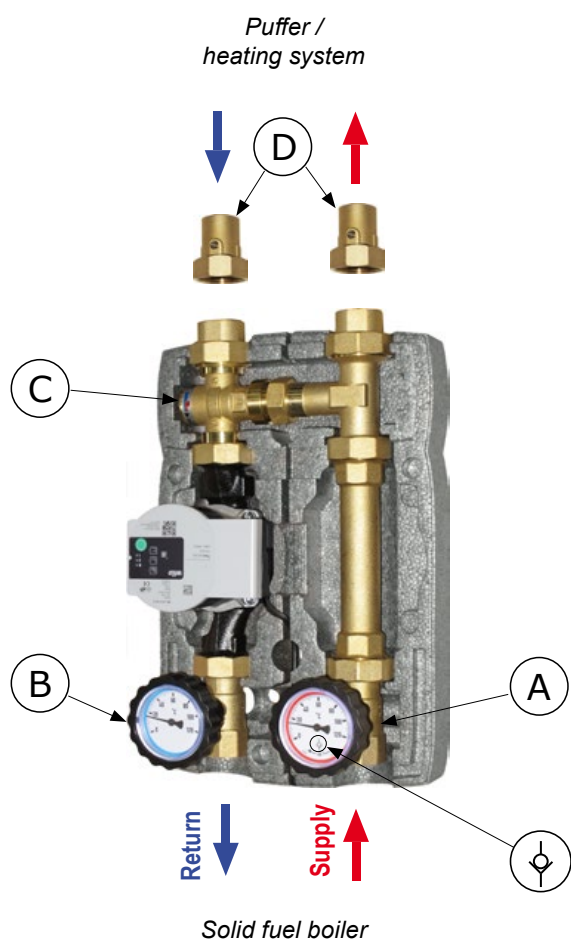




## Installation instructions

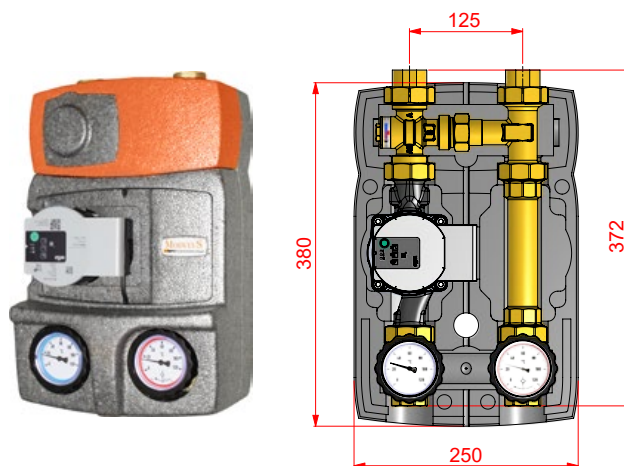


Note: A group with supply to the right is shown

### 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 (A) of the supply 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.



### 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. In case of particularly dirty water, the thermic valve shutter can be easily cleaned (Pict. 1). 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

### FIELD OF USE

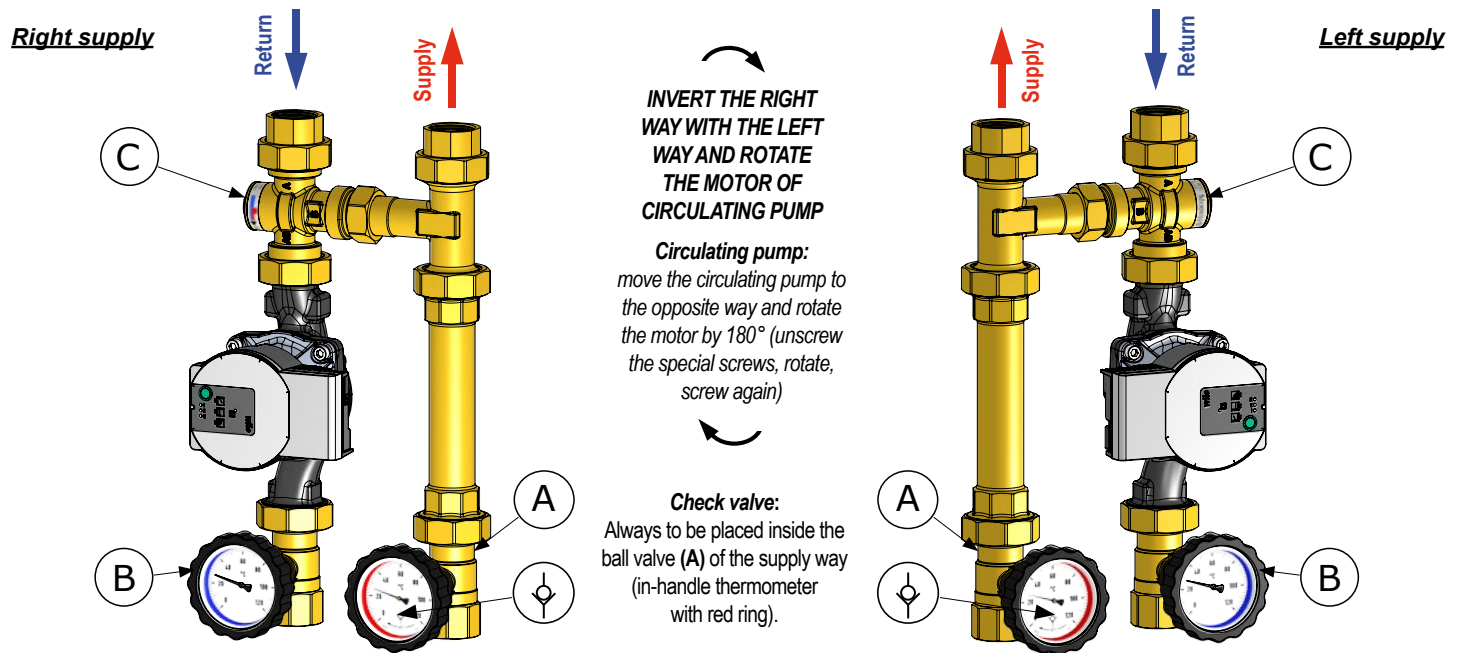
For power up to 32 kW (with  $\Delta t$  20 K) and maximum flow of 1400 l/h. Kvs value: 3.0.

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.

# M2 FIX3 CS ANTI-CONDENSING PUMP UNITS - DN25 SERIES

## INVERSION OF THE PUMP UNIT. LEFT SUPPLY.

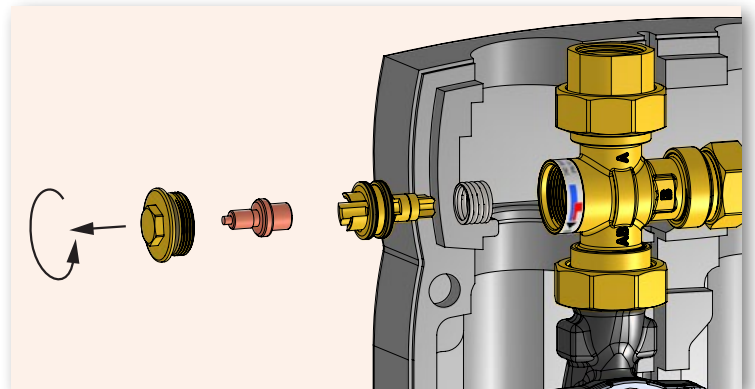
All M2 FIX3 CS pump units can be inverted to change the supply way from right side (the most popular execution) to the left side.



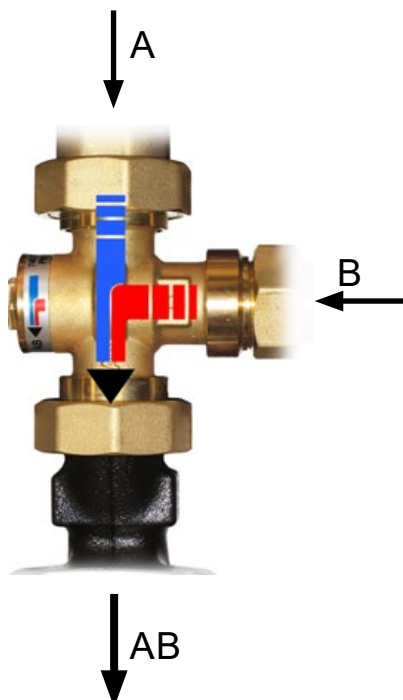
- (A) Ball valve on the supply way (in-handle thermometer with red ring) with check valve.
- (B) Ball valve on the return way (in-handle thermometer with blue ring).



**SERVICE:** The anti-condensing valve (C) can be removed for service. Unscrew the plug with hexagon 17 by means of a suitable key. Take out the components, clean, lubricate and reassemble following the sequence of the Pict.1.



Picture 1



### WORKING WAY:

- (1) - When the boiler starts, the thermic valve is closed towards the user until the fluid of the heat source loop reaches the opening temperature of the thermic valve (f.e. 55°C). During this step the fluid is recirculating through the by-pass (B).
- (2) - When the opening temperature of the thermic valve is reached (f.e. 55°C), the third way (A) opens proportionally and the by-pass is closed.
- (3) - At this point the supply temperature increases progressively until the complete opening of the thermic valve and respectively closing of the by-pass. This happens at about 10K more than the opening temperature (in our case at about 65°C). Now the installation is operative and the supply fluid temperature can increase up to the selected value.