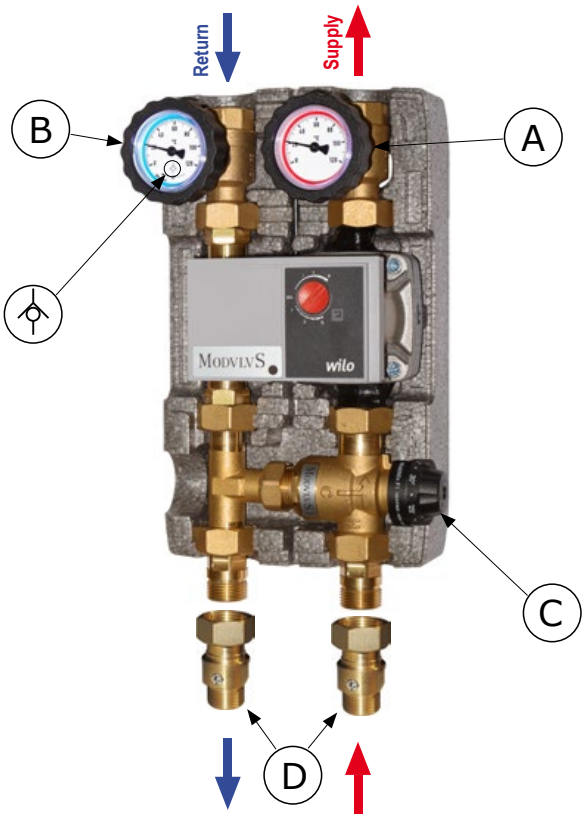
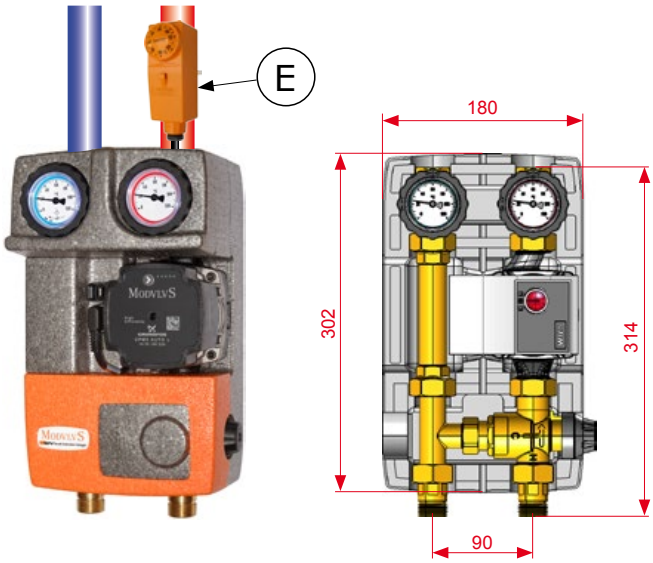
Installation instructions



MEASUREMENTS

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

Measurements: 180x302x142 mm.

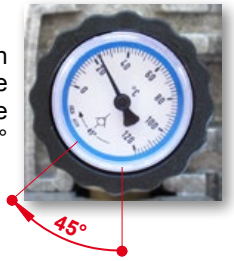


SERVICE

We recommend you to install two isolating ball valves **(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 obturator of the thermic valve in an easy way **(Pict. 1)**. Once the service ended, open again the valves and restore the pressure of the installation.

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

See the chart here below.

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.**

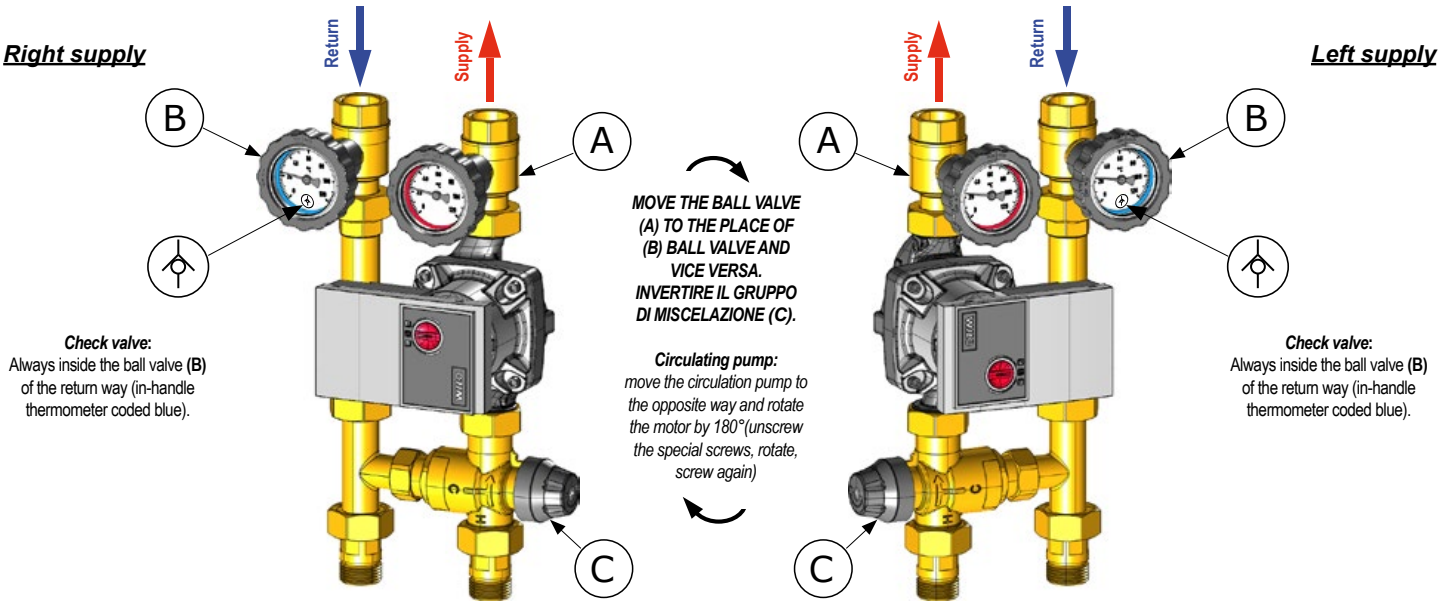
SAFETY: We recommend to mount always a security thermostat **(E)** on the supply pipe to avoid overtemperatures.

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 lifting power***	***Approximate surface of the underfloor heating system***
F1	*20-45°C*	*8 K*	*2,0*	*4,5 kW - 500 l/h*	*Wilo Yonos Para RS 15/6*	*5 mH_2O*	*Up to a 50 m^2*
F2	*45-70°C*	*20 K*	*2,0*	*11 kW - 500 l/h*	*Wilo Yonos Para RS 15/6*	*5 mH_2O*	-
F1	*20-45°C*	*8 K*	*2,0*	*9 kW - 1000 l/h*	*Wilo Yonos Para RS 15/7,5*	*5 mH_2O*	*From 50 m^2 to 100 m^2*
F2	*45-70°C*	*20 K*	*2,0*	*22 kW - 1000 l/h*	*Wilo Yonos Para RS 15/7,5*	*5 mH_2O*	-

*Reference temperatures: Models **F1**: TH: 55°C ; TV: 24°C ; TMIX: 32°C - Models **F2**: TH: 75°C ; TV: 40°C ; TMIX: 55°C*

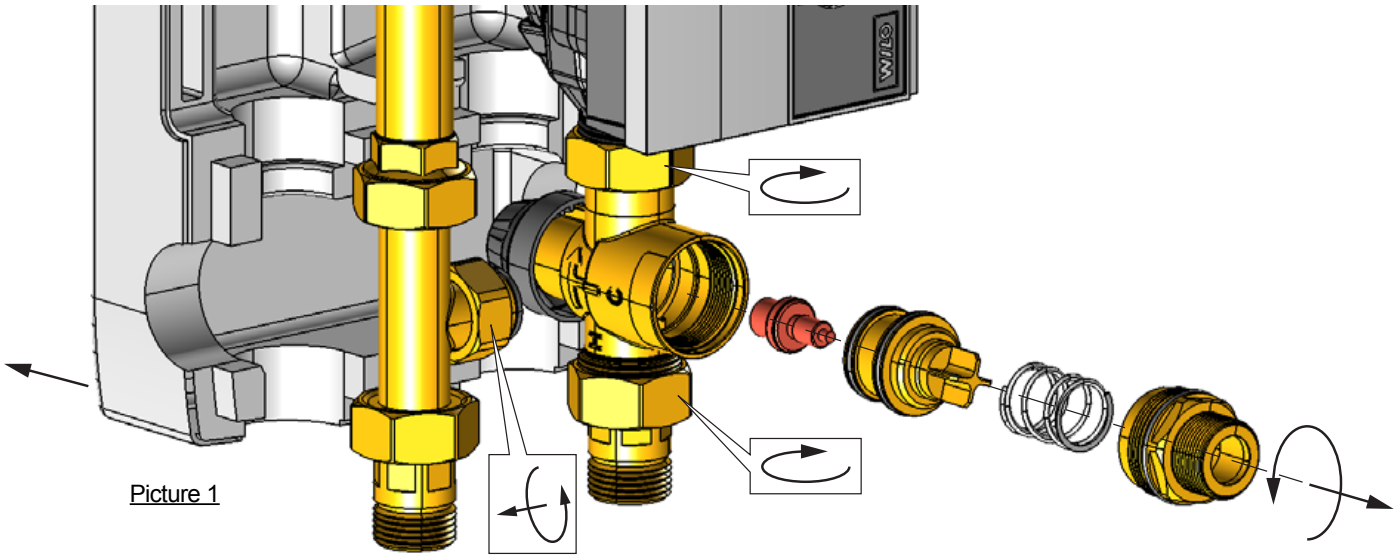
INVERSION OF THE PUMP UNIT. LEFT SUPPLY.

All **M2 FIX3** pump units can be inversed 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: The thermostatic mixer **(C)** can be removed for service. Loosen the 3 nuts and draw back the nut of recycling. Take out the gasket and rotate the body of the thermostatic mixer in order to approach to the cartidge easily. Unscrew the sleeve threaded with 33 mm hexagon by means of a suitable key. Take out the components, clean, oil and reassemble following the sequence of the **Picture 1**. Screw the sleeve and restore the tightening torque at 40 Nm. Place again the thermostatic mixer and in case replace the damaged gaskets. Thigten the 3 nuts.



Picture 1

THERMOSTATIC MIXER:
The sensor of the thermostatic mixer MultiMix, in case of need, can fully close the inlet of recycling (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.