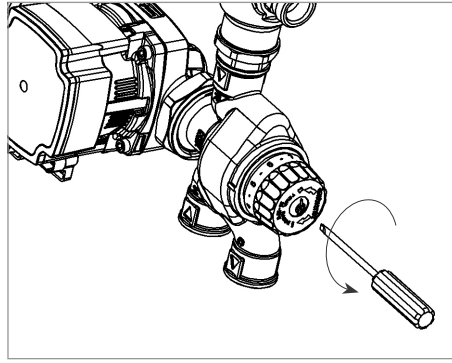


Group regulation

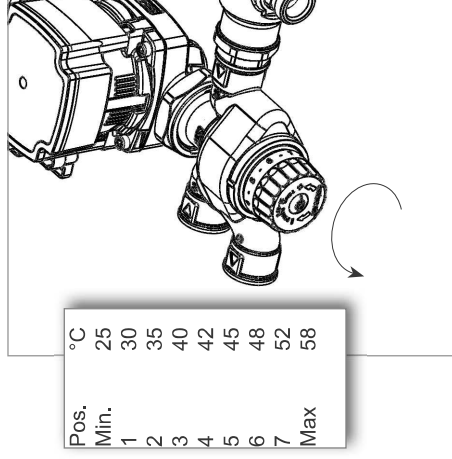
a) Thermostatic mixing valve setting

EN: Assembling instruction

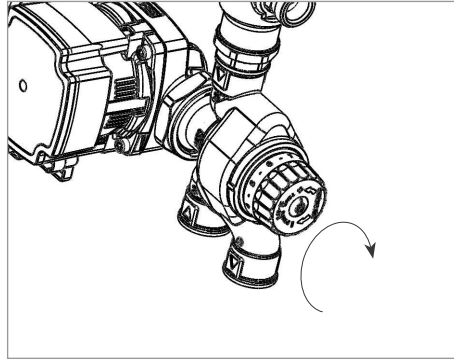
1. When the pump switched off and the system is cold, with a screwdriver slightly loosen the locking screw holding the handle with your hand;



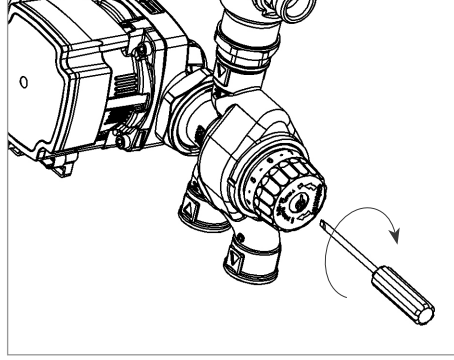
3. Switch on the boiler and when the water is hot, switch on the group pump. Rotate gradually the handle counterclockwise toward increasing temperatures and wait the temperature stabilizes. (To make quickly the operation, you can refer to table data looking the valve reference mark)



2. Rotate manually the handle clockwise until the limit switch at the minimum temperature;

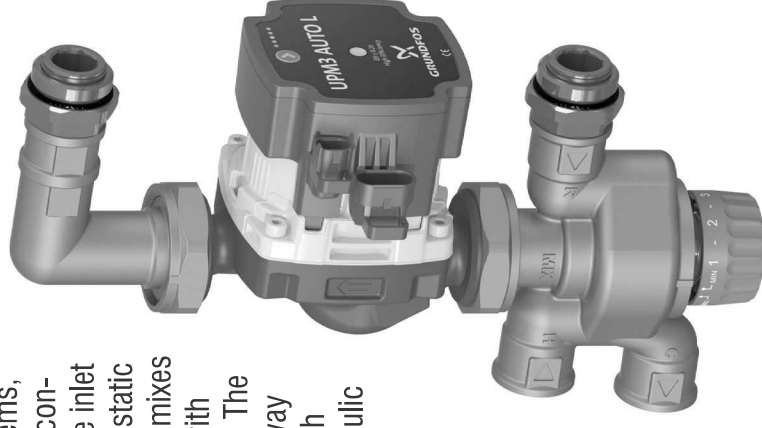


4. When the desired temperature is reached, close the locking screw holding the handle with your hand.



The recessed heating group allows the inlet temperature setting to distribution manifolds.

It is normally installed in heating systems, especially underfloor heating directly connected to manifolds. The setting of the inlet temperature is done through a thermostatic mixing valve, manually set and which mixes the heating fluid coming from boiler with the one coming from system's return. The article is composed by a pump, a 4-way thermostatic mixing valve, a fitting with temperature gauge, fittings with hydraulic sealing for manifolds' connection.



Cod. 24B

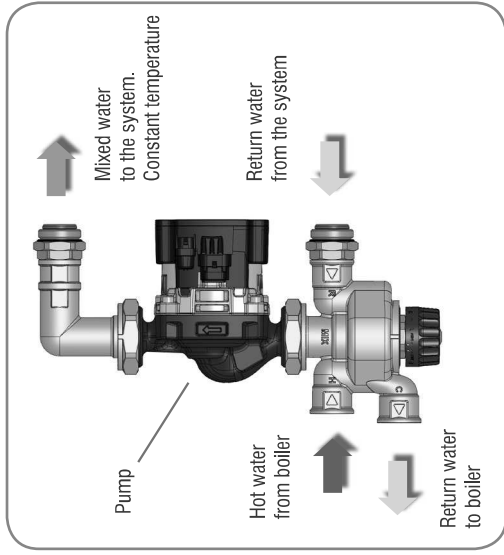
Attention!!! The valve regulation can be made only when the system return temperature is lower than the temperature that you want to set in the mix. Otherwise we advise to switch off the boiler and wait the complete cooling of the system until the return temperature is lower than the temperature that you want to set in the mix.



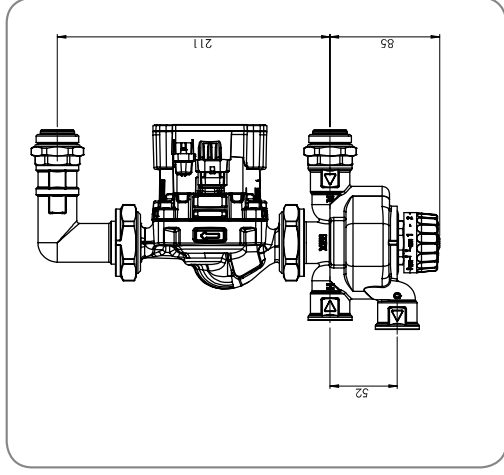
Technical details

Max. working temperature: **90 °C**
 Max working pressure: **10 bar**
 Regulation temperature: **25 ÷ 58 °C**
 Accuracy: **±2 °C**
 Group flow coefficient: **KV 4**
 Thermal power (without system pressure drop): **29kW (DT10°C)**
 Installation's connections:
 Female threaded connections: **ISO 228/1**
 Male threaded connections: **ISO 228/1**
 Suitable fluids: **water, mix water and glycol (max 30%)**
 Pump: **Grundfos UPM3 AUTO-L 25-70 130**
Grundfos UPSO 25-65 130

Working way



Dimensions



Installation

The installation of every component must be made from qualified people because this system is used to carry the fluid at temperature and pressure that can be dangerous for people and things. It is suggested, before installing the product, to verify working conditions of the installation, for example pressure and temperature, to guarantee that they are suitable for the product working range. The installation, where the product will be assembled, must be washed and cleaned before the operation. It is also suggested to assemble suitable strainers at the main inlets. If the installation is not accurately cleaned, debris could influence the correct working and warranty of the product. If the product will be used in areas with very hard water, it is suggested to install water softener before. It is important that the product has free access for maintenance reasons. To correctly install it please refer to the directional arrow marked and letters on the valve's body

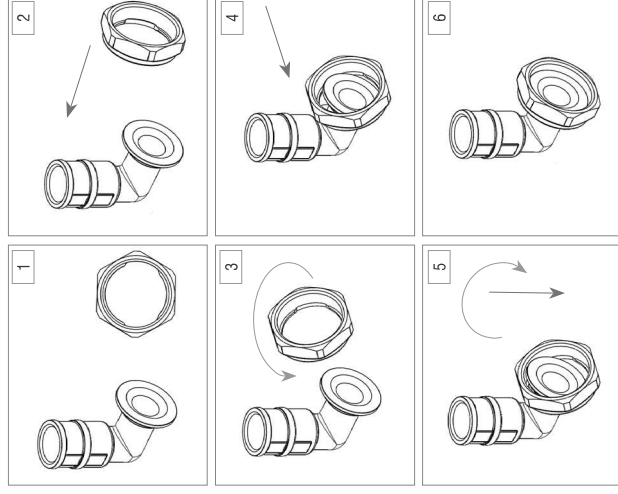
- H(HOT): hot water inlet
- R(RETURN): cold water inlet from manifold
- C(COLD): cold water outlet to the boiler
- MIX: mixed water outlet

Materials

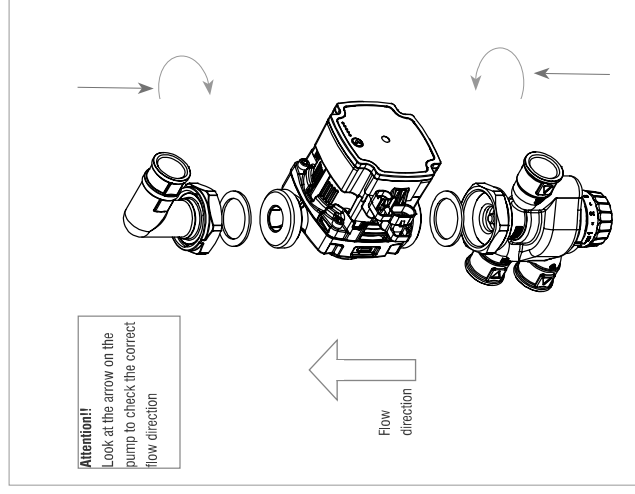
- Thermostatic mixing valve
- Body: **brass**
- Gasket: **EPDM**
- Spring: **Stainless steel**
- Curve
- Body: **brass**
- Gasket: **EPDM**
- Pump
- Body: **cast iron**

Group assembling

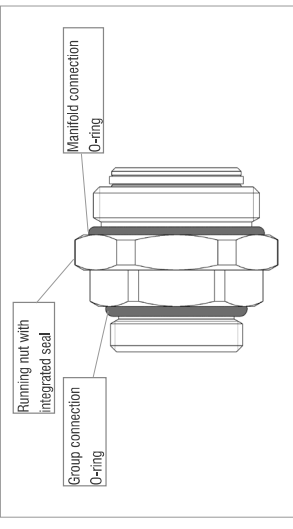
a) Running nut assembling



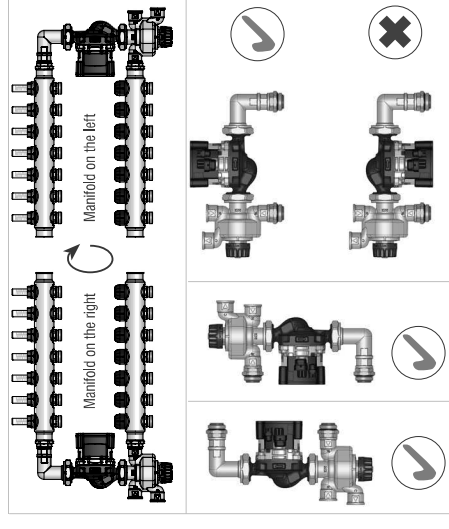
b) Pump assembling



c) Manifold connection assembling



Group positioning



Part description

1. Pump
2. 4-Way thermostatic mixing valve with pump connection;
3. Elbow with pump connection
4. Manifold fittings with integrated seal
5. Flat gaskets
6. Manual

