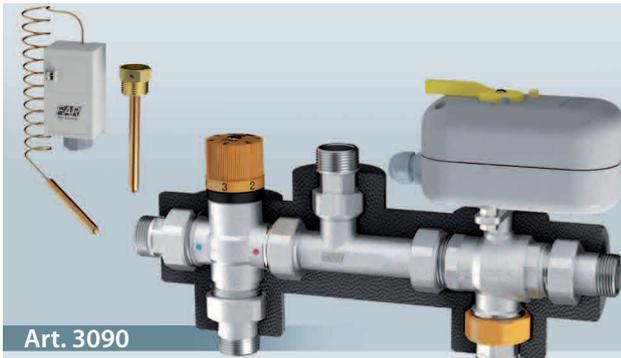


UNITS FOR SOLAR THERMAL SYSTEMS



Art. 3090

Solar unit for systems with thermal integration

- Solar mixer with 30-65°C temperature range
- 3/4" diverter valve with 230V 8s actuator with manual release
- Max. pressure: 10 bar
- Max. temperature: 110°C
- Non-return valves on the inlets
- EPDM sealing gaskets
- Insulation
- Remote thermostat with immersion sensor
- Connections with 3/4" unions



Art. 3091

Solar unit for systems without thermal integration

- Solar mixer with 30-65°C temperature range
- 3/4" diverter valve with 230V 8s actuator with manual release
- Max. pressure: 10 bar
- Max. temperature: 110°C
- Non-return valves on the inlets
- EPDM sealing gaskets
- Insulation
- Remote thermostat with immersion sensor
- Connections with 3/4" unions

1. DESCRIPTION

SOLARFAR units allows use of a solar thermal system in combination with a boiler. The domestic hot water source is selected on the basis of the temperature detected by the solar storage-tank sensor.

Depending on the type of boiler used, you can choose between two solar unit versions:

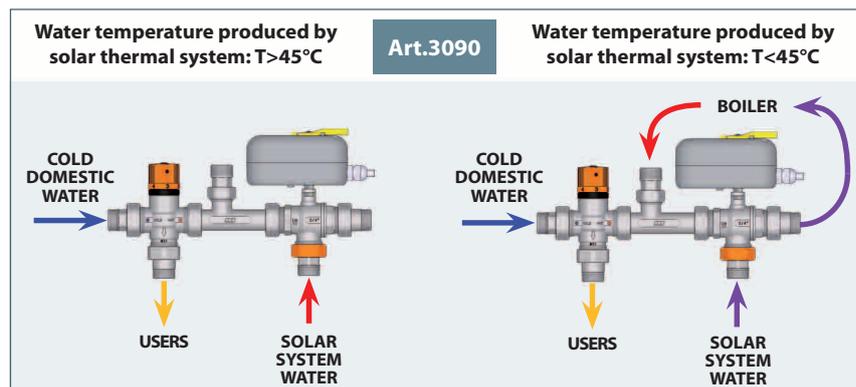
- art.3090 for installation in systems with thermal integration, equipped with modulating boiler
- art.3091 for installation in systems without thermal integration, equipped with non-modulating boiler

All versions of the solar unit are supplied with insulation.

2. OPERATION

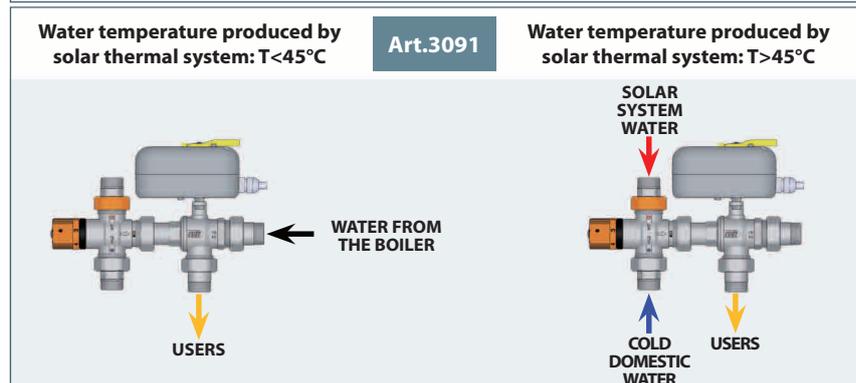
Solar unit with thermal integration

When the temperature of the water in the storage tank exceeds the set value (45°C) indicated on the capillary thermostat, the 3-way zone valve will divert the flow to the thermostatic mixer, making it available to users. If the stored water temperature falls below the set point, the 3-way zone valve will re-direct the water to the boiler, which heats the water to the desired temperature.



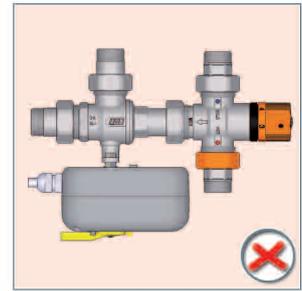
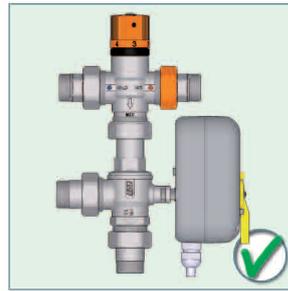
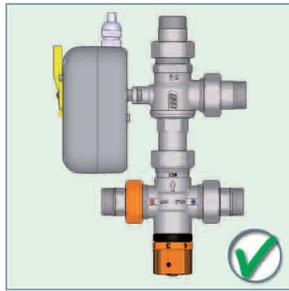
Solar unit without thermal integration

Once the temperature of the water in the storage tank exceeds the set value (45°C) indicated on the capillary thermostat, the 3-way zone valve will divert the flow to the thermostatic mixer, making it available to users. If the stored water temperature falls below the set point, the hot water will be supplied directly from the boiler.



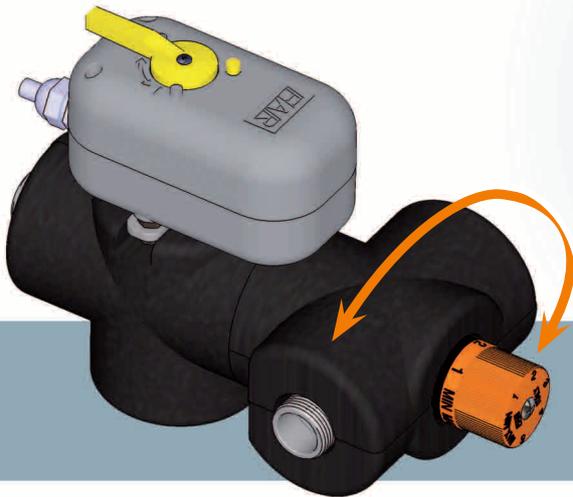
3. INSTALLATION

The illustrations below show both correct and incorrect solar unit installation.

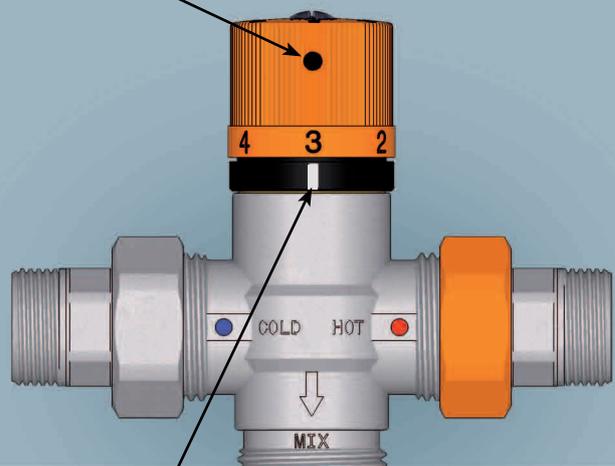


MIXER REGULATION

SELECTOR POSITION	CORRESPONDING TEMPERATURE IN °C
MIN	30
1	35
2	40
3	45
4	55
5	60
MAX	65



Once the temperature has been set, it is possible to lock the handle by pressing the screw.

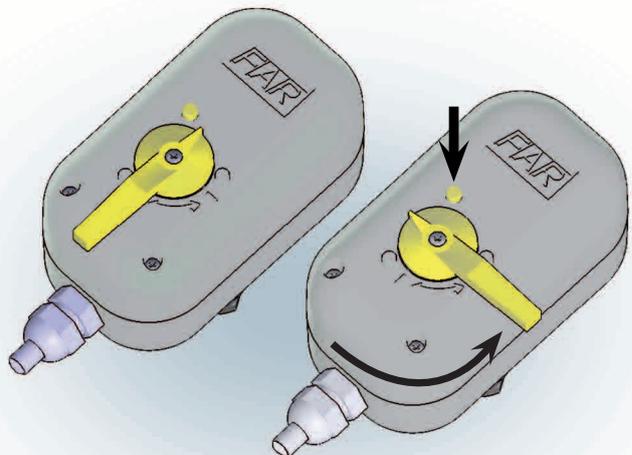
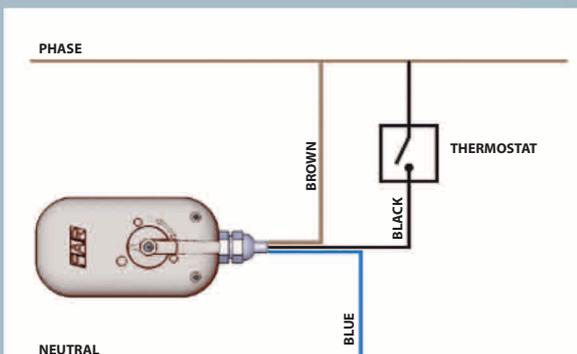


REFERENCE NOTCH

The thermostatic mixer can rotate through 360°, thus facilitating connections, according to the layout of the system.

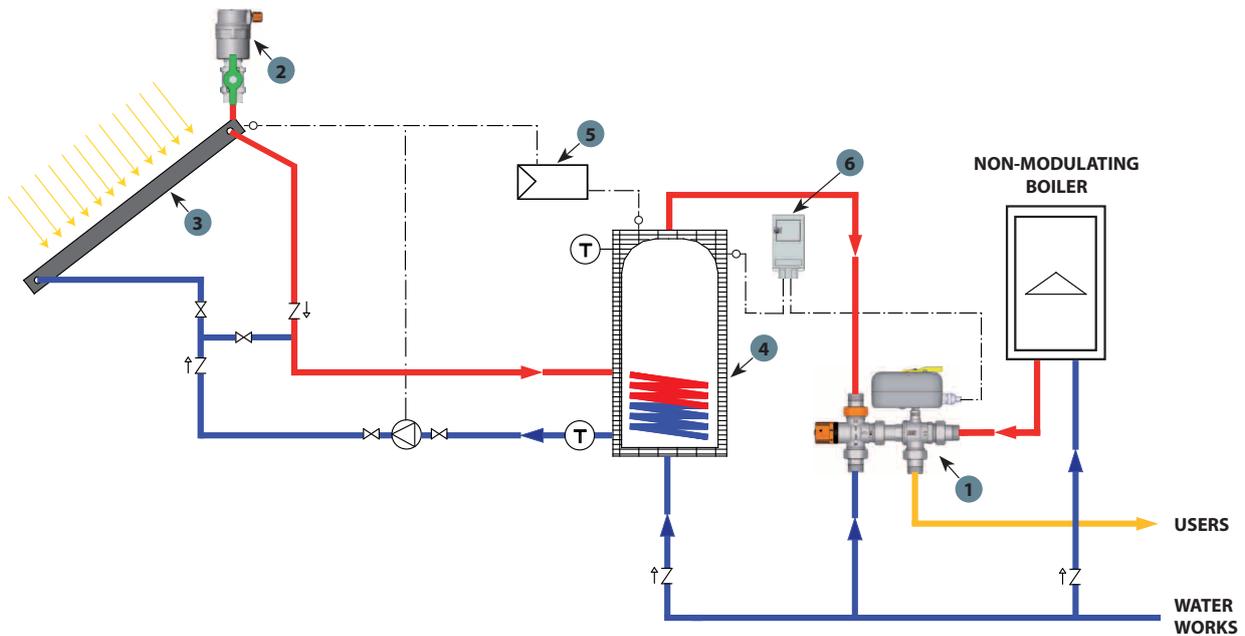
WIRING SCHEME

The scheme below shows an example of actuator wiring. The brown wire must be connected to the phase, the blue wire to the neutral and the black to the thermostat.



The actuator is provided with a manual release, which permits manual opening or closing of the zone valve in the event of power failure. Press the release key for a few seconds and rotate the lever as shown in the picture above.

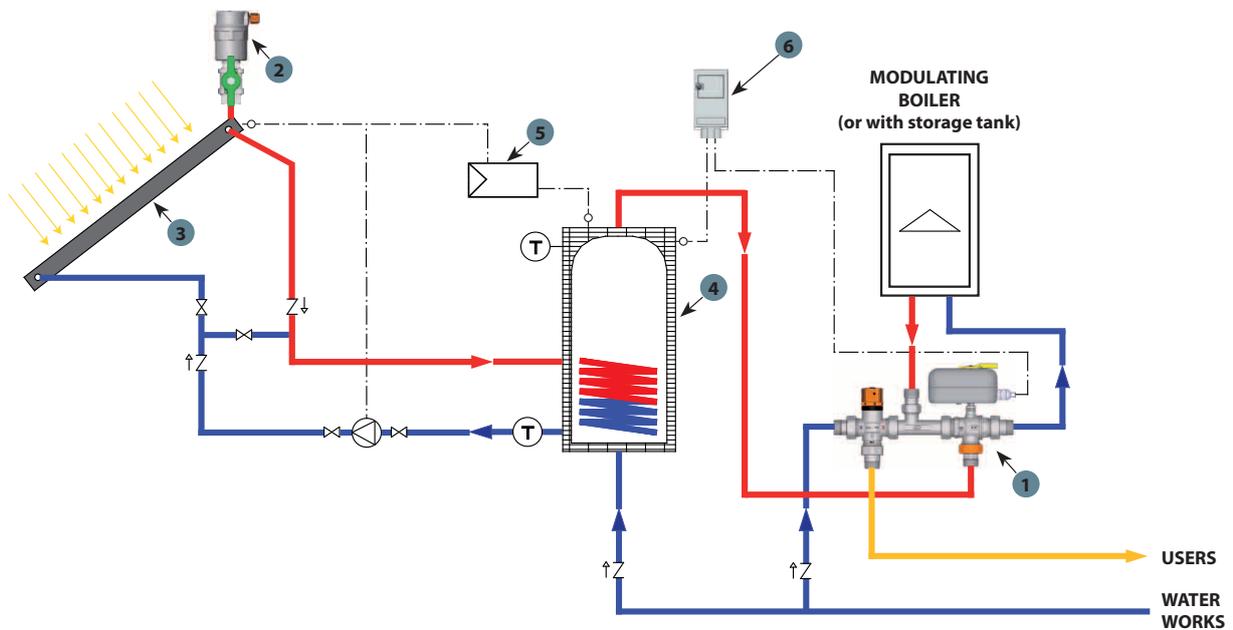
ART. 3091 34 INSTALLATION OVERVIEW SOLAR SYSTEM WITH FORCED CIRCULATION AND NON-MODULATING BOILER



- ⊕ Temperature probe
- Ⓣ Temperature gauge
- ⊖ Pump
- ⊗ Shut-off valve
- ↑Z Non-return valve

- 1- SOLAR UNIT WITHOUT THERMAL INTEGRATION
- 2- SOLARFAR AIR VENT VALVE
- 3- Thermal solar panel
- 4- Storage tank
- 5- Control unit
- 6- Thermostat art.7953

ART. 3090 34 INSTALLATION OVERVIEW SOLAR SYSTEM WITH FORCED CIRCULATION AND MODULATING BOILER WITH THERMAL INTEGRATION

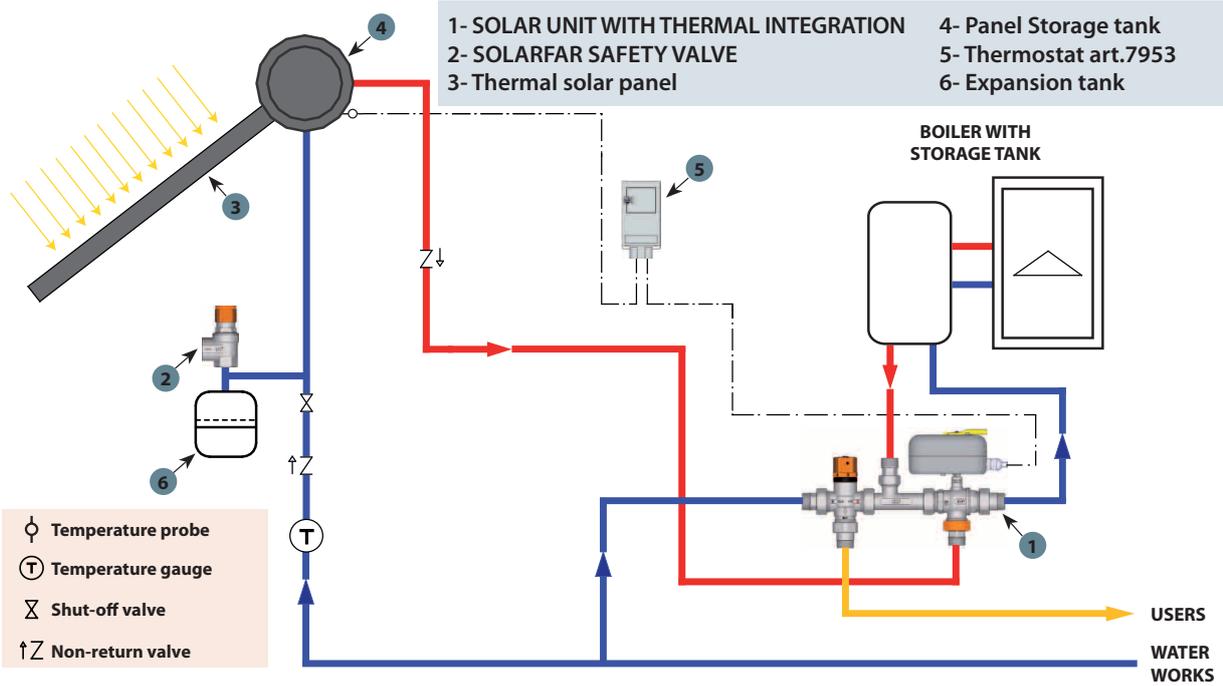


- ⊕ Temperature probe
- Ⓣ Temperature gauge
- ⊖ Pump
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- 1- SOLAR UNIT WITH THERMAL INTEGRATION
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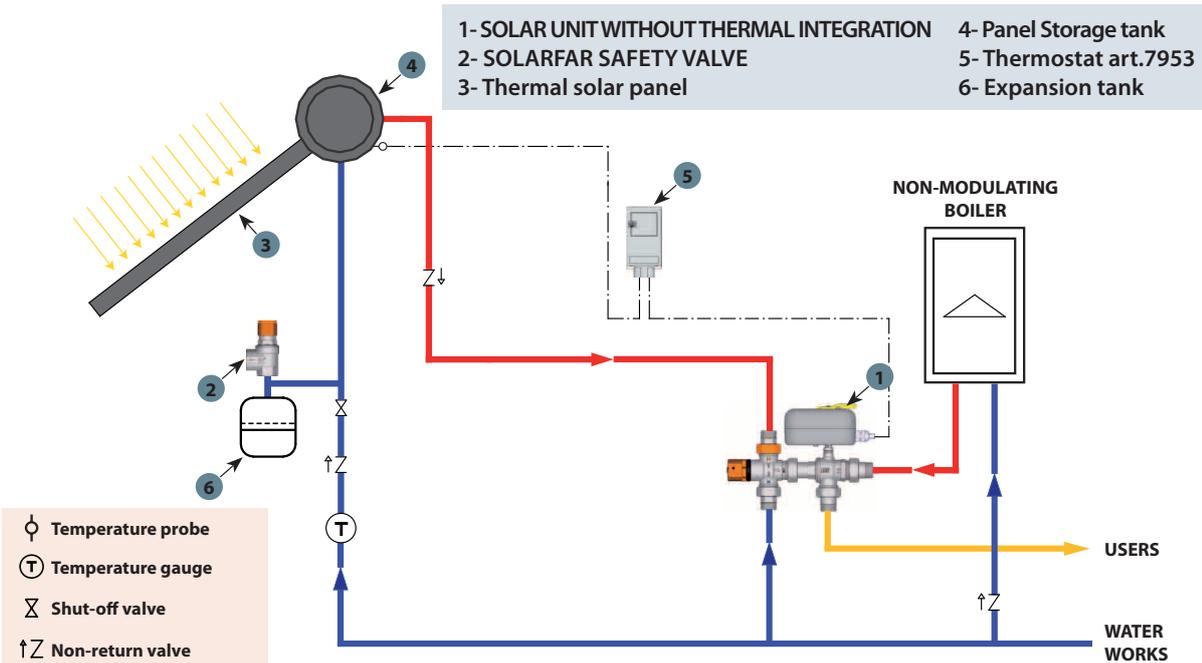
ART. 3090 34 INSTALLATION OVERVIEW

SOLAR SYSTEM WITH NORMAL CIRCULATION AND MODULATING BOILER WITH THERMAL INTEGRATION



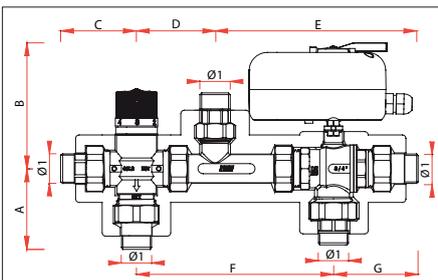
ART. 3091 34 INSTALLATION OVERVIEW

SOLAR SYSTEM WITH NORMAL CIRCULATION AND NON-MODULATING BOILER

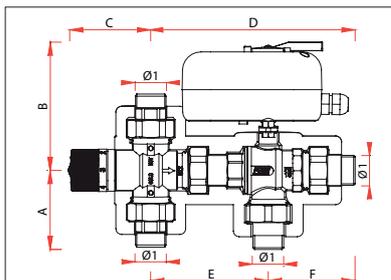


5

DIMENSIONAL FEATURES



CODE	Ø1	A	B	C	D	E	F	G
3090 34	G3/4	72	112	67	69	178	172	74



CODE	Ø1	A	B	C	D	E	F
3091 34	G3/4	67	112	71	176	101	75