



BM Thermostatic Mixing Valve

Function

- The BM thermostatic mixing valve is installed in the hot water pipe behind the water heater and is designed to mix hot and cold water.
- Via the handwheel the mixing temperature can be continuously adjusted between 35 °C and 55 °C.
- The set value can be locked. In this case unauthorized persons cannot change the temperature.
- If the cold water supply stops, the hot water supply will automatically be locked.
- The mixing temperature can be checked if a thermometer connector is installed.
- In order to prevent malfunctions due to welding beads or dirt a dirt trap should be installed in both cold and hot water supplies.



Technical data

Table 1 BM thermostatic mixing valve	
Adjustable temperature	35 - 55 °C, continuously adjustable
Max. operating temperature	100 °C
Pressure level	PN 10
Max. flow rate	1,500 l/h
Flow rate index K_v	1.4
Material	gun metal Rg 5 valve housing; valve taper and guide components made of limescale resistant quality plastic
Connectors	for solder connection 22 mm (Part No. 100 89) or for threaded connection 3/4" (Part No. 150 300 75)

Figure 1 BM Thermostatic mixing valve.

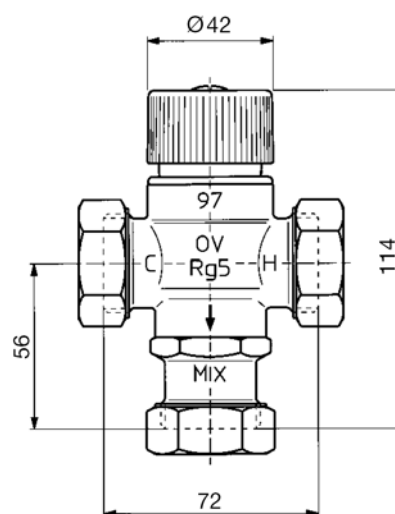


Figure 2 Dimensions BM Thermostatic mixing valve (in mm).

Table 2 Accessories for BM thermostatic mixing valve	
Set of soldered connectors	LT 22-1" (Part No. 100 85), locking nut, seal and soldered connectors 22 mm, 1 each
Set of threaded connectors	GT 1"-3/4" (Part No. 139 100 11), locking nut 1", seal and threaded connectors 3/4" AG, 1 each
Thermometer connector	Thermometer (63 mm Ø), display range 20 - 80 °C, locking nut connector G 1, Part No. 160 101 35

Installation examples

- P1 : Solar circuit pump
- P2 : Tank charging pump
- P3 : Heating circuit pump
- BWM : Thermostatic mixing valve
- RV : Return-flow check valve

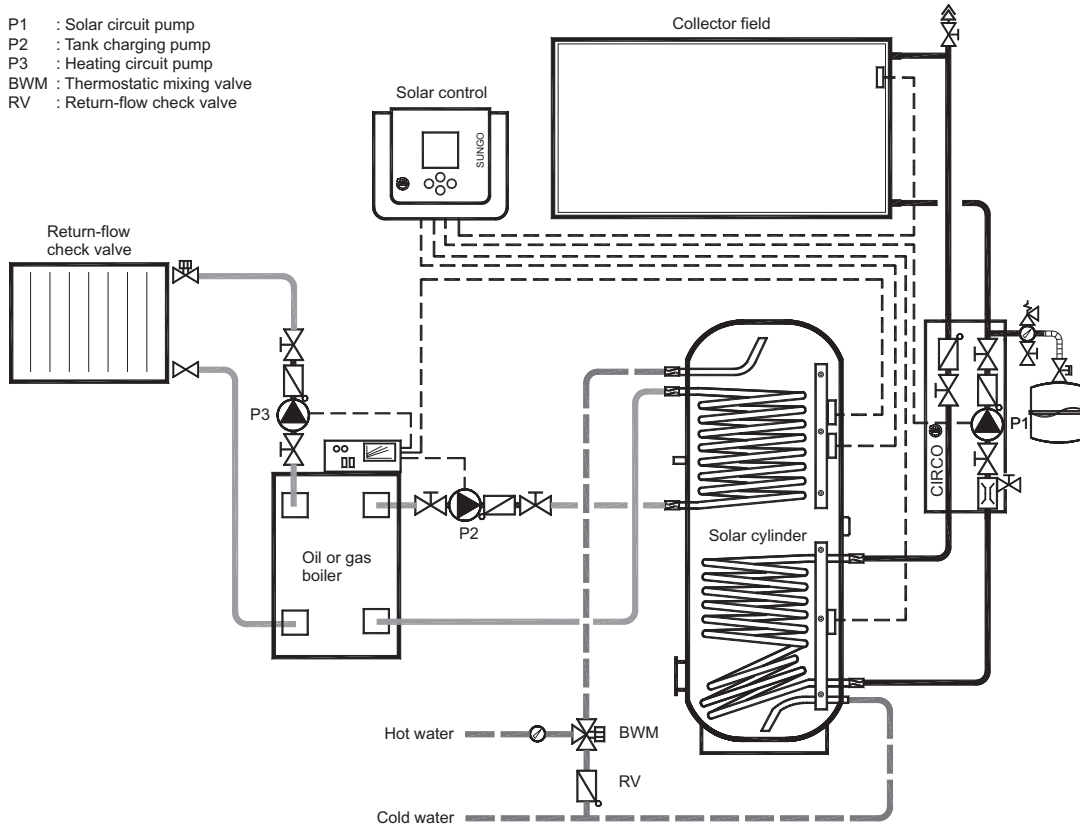


Figure 3 Installation example 1: BM Thermostatic mixing valve connected to solar cylinder without hot water circulation.

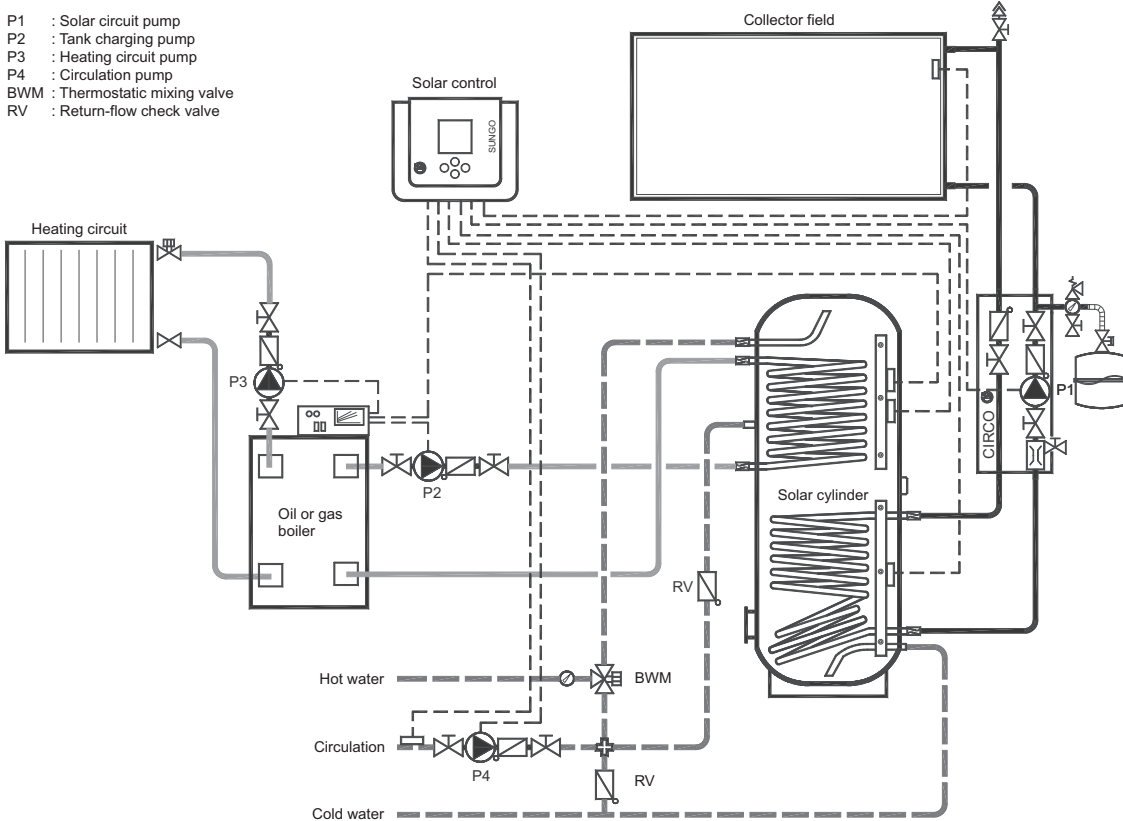


Figure 4 Installation example 2: BM Thermostatic mixing valve connected to solar cylinder with hot water circulation.
 Note: Keep circulation run times as short as possible (e.g. let pump run with time and temperature control). This hydraulic dimensioning ensures, that the temperature stays below the set maximum.