

### GP 1190

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#### Function

The fixed point heating system enables to easily and economically obtain a mixed heating system in households where both high temperature heating bodies (60°C÷70°C) and low temperature radiant panels (20°C÷50°C) are installed.

The GP 1190 system keeps the water in the radiant panels at a constant pre-set temperature by mixing hot water coming from the boiler with the one circulating in the panels. A thermostatic valve with remote sensor measures the temperature and adds water to the circuit accordingly, so as to compensate the heat output of the radiant panels.

It is advisable to install a security thermostat on the pump inlet valve in order to avoid damages caused by a sudden temperature rise. The intervention of the thermostat must block the functioning of the pump.

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#### Technical data

Max. working pressure:	10 bar
Max. working temperature on primary circuit:	120 °C
Max. differential pressure:	1 bar
Thermometer range:	0 ÷ 80 °C
Working fluids:	water in compliance with UNI 8065:2019

#### Materials

##### Pump group

Group:	CW 617 N – DW UNI-EN 12165:2016
Components:	CW 614 N – DW UNI-EN 12164:2016
Gaskets:	Peroxide cured EPDM

##### Thermometer

Case and stem:	Galvanised steel
Cover:	Transparent plastic material
Thermometric element:	Bimetallic spiral spring

##### Manual air vent valves

Valve body:	CW 614 N – DW UNI-EN 12164:2016
Valve body:	Thermoresistant plastic material
Gaskets:	Peroxide cured EPDM

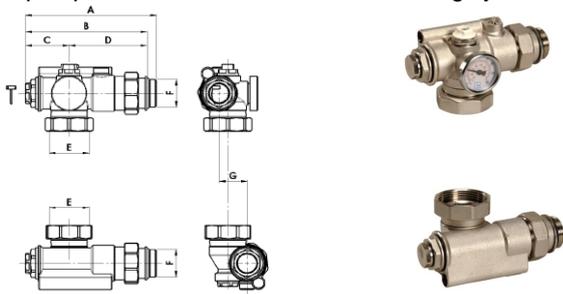
##### Surface treatment

Nickel-plating

## Dimensional Drawings

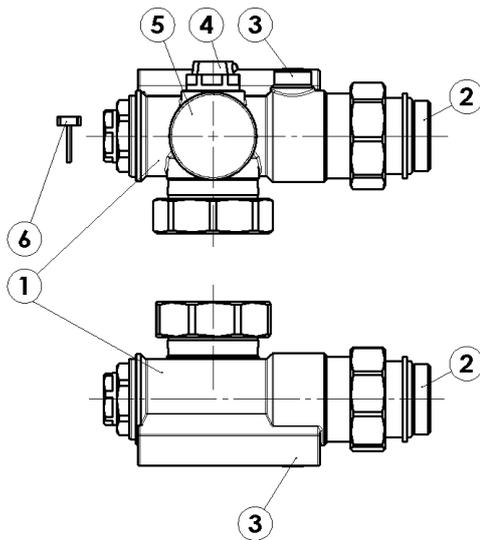
### GP 1190

G1" pump connection valve for mixed heating system.



Code	Size	A	B	C	D	E
72000030	G 1"	150	139	50	89	G1"1/2
Code	Size	F	G	H	L	M
72000030	G 1"	G1"	32	-	-	-

## Construction



1. Pump group

2. Union fittings with O-ring

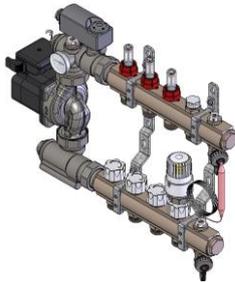
3. Ball valves

4. Manual air vent valve

5. Thermometer

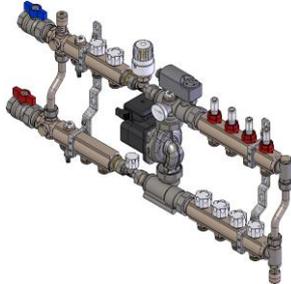
6. Spring clip for probe fastening

## Working Instructions



The GP1190 may be used in a number of ways:

- The version with GP1190 only it is possible to obtain a low temperature only system by using one way of the manifold as an inlet for the hot water coming from the boiler. This type of system can supply a max thermal power of 20 kW with a  $\Delta t$  of 10 °C and a temperature of  $\geq 70^\circ\text{C}$  on the primary circuit.



- The version with KA1191 allows for control and balancing of the incoming water, but not using a way of the manifold. Moreover, by connecting another manifold to the KA1191 it is possible to control the distribution both for the high temperature and the radiant panels circuit with a single system. This type of system can supply a max thermal power of 14 kW with a  $\Delta t$  of 10 °C and a temperature of  $\geq 70^\circ\text{C}$  on the primary circuit.



- The version with FM750 enables to control and balance the incoming water without using a way of the manifold, and this item can be connected both on the left and the right. Moreover, by connecting another manifold to the FM750 it is possible to control the distribution both for the high temperature and the radiant panels circuit with a single system. This type of system can supply a max thermal power of 20 kW with a  $\Delta t$  of 10 °C and a temperature of  $\geq 70^\circ\text{C}$  on the primary circuit.



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