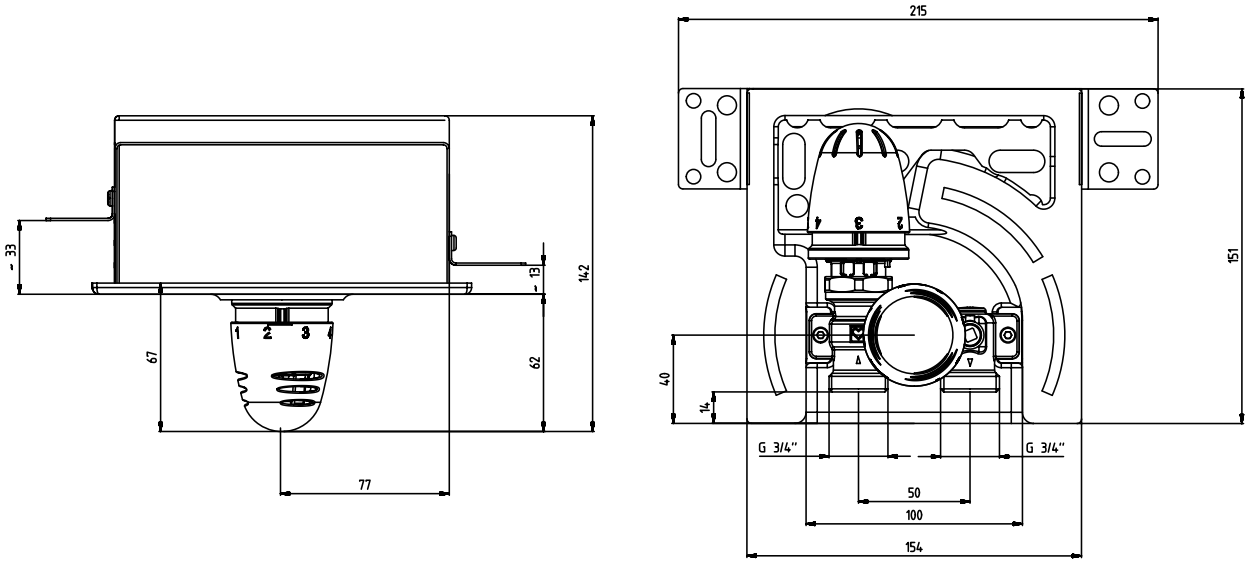
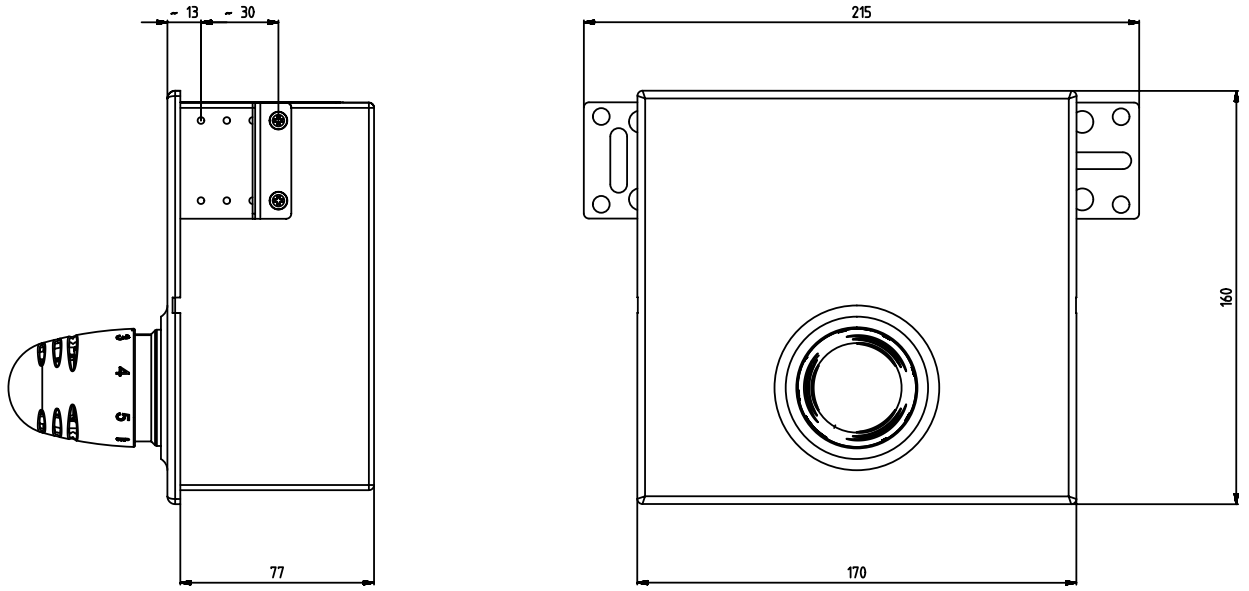
HERZ- FLOORFIX COMPACT

Zone valve for individual room temperature control for floor heating

Data sheet 1 **8100** 30, Issue 0121

Dimensions in mm





Technical data

Nominal size	DN20
Max. operating temperature for supply	70 °C
Max. differential pressure on valve	20 kPa
Max. operating pressure	10 bar
Valve body material	EN 1982-CC754S-GM
Sealing material	EPDM
Max. room heating load (heating demand)	1000 W

Operating temperature of max. 45 °C recommended for floor heating purposes.
Water purity in accordance with the ÖNORM H 5195 and VDI 2035 standards. The temperature and pressure specifications of the pipe manufacturer must be observed.
Ethylene and propylene glycol can be mixed to a ratio of 25 - 50 vol. [%].
Ammonia contained in hemp can damage brass valve bodies. EPDM seals can be damaged by mineral oil lubricants and thus lead to failure of the EPDM seals. Information on frost and corrosion protection of ethylene glycol products are available in the manufacturer's documentation.

Maximum controllable areas

The HERZ-FLOORFIX COMPACT should preferably be installed at approximately half the pipe section of the floor circuit, flow and return pipe length of the ground circle are thus of almost the same length.

Pipe	floor area with 100 mm pipe distance	floor area with 150 mm pipe distance	floor area with 200 mm pipe distance
20 x 2 mm 18 x 2 mm 17 x 2 mm 16 x 2 mm	max 8 m^2	max 12 m^2	max 14 m^2

Model

HERZ-FLOORFIX COMPACT (G 3/4“) is an installation set with a built-in box for temperature control of floor heating circuits with a thermostatic valve and a return temperature limiter; with cover plate; incl. air vent valve.

Equipped with a HERZ design thermostatic head MINI 1 **9200** 60, room temperature setting range: 6 - 28 °C

Return temperature limiter MINI GS 1 **9201** 06, return temperature limited to 25 - 45 °C

Functionality

The HERZ FLOORFIX COMPACT enables individual room temperature control via floor heating with simultaneous return temperature limitation. Before the supply flow reaches the valve body, half of the floor heating circuit must be flowed through. The flow of the heating medium is controlled by the HERZ thermostatic head, which actuates the HERZ TS-90 thermostatic insert built into the FLOORFIX COMPTACT. The heating medium temperature is transmitted from the valve body to the temperature sensor of the return temperature limiter. If the setpoint temperature is exceeded, the return temperature limiter closes the valve, if the temperature falls below the setpoint temperature, the valve opens.

Setting options of the HERZ-Design-thermostatic head MINI

By positioning the scale marks opposite the pointer, it is possible to achieve following room temperatures.

Marking	✻	**1**	**2**	**3**	**4**	**5**
~ °C	6	12	16	20	24	28

Deviations of a few degrees (K) are possible depending on mode of installation and the design of the heating system.
Thermostat **9200**: Turning the thermostat counterclockwise to the maximum position “5” corresponds to approx. 28 ° C.

Setting options for the MINI GS return temperature limiter

Note: The return temperature limiter MINI GS, which is supplied with the FLOORFIX COMPACT, is limited to max. 45 °C return temperature. A temperature setting above this value is not recommended!

If technically necessary and at your own discretion, the limiting pins can be loosened and, if necessary, repositioned in order to limit or expand a certain setpoint range. The temperatures are set by positioning the blue handwheel markings opposite to the indicator bar. Deviations are possible depending on the system design and mode of operation.

Marking	1	2	3	4	5
~ °C	25	35	45	55	60

Pipe connectors

Temperature and pressure values are permissible according to EN 1254-2 1998 Table 5 for HERZ press fittings for copper and steel pipes. For HERZ plastic pipe connections a max. Operating temperature of 95 ° C and a max. operating pressure of 10 bar is permissible if approved by the pipe manufacturer.

Accessories

1 **6098** XX	Plastic pipe connections G 3/4“
1 **6274** XX	Compression adapter metallic seal G 3/4“
1 **6276** XX	Compression adapter with soft seal olive, G 3/4“
U **XXXX** XX	HERZ-LINE PE-RT 5-layered pipe for floor heating
	HERZ-press fittings for HERZ-PIPEFIX-pipes
	HERZ-PIPEFIX composite pipes

Spare parts

1 **9200** 60	HERZ-Design-thermostatic head MINI
1 **9201** 06	HERZ-return temperature limiter MINI GS
1 **8100** 52	Cover plate white RAL 9010
1 **6390** 91	Thermostatic insert TS-90

Maintenance instructions

If leaks occur, the O-ring screw 1 **6890** 00 can be replaced. The O-ring screw can be loosened with a ring spanner SW 13 by turning the screw counterclockwise. A slight leakage of water is possible. After removing the O-ring screw, the position of the serrated ring must be checked and, if necessary, brought into the correct position with a suitable tool.

Only lubricate with silicone grease. Lubricants containing hydrocarbons (e.g. MoS_2 spray) destroy the EPDM O-rings. If the valve spindle gets stuck, the O-ring screw can be loosened. It can be tried then to make the valve spindle movable again with the help of pliers or the like. The O-ring screw can then be re-fitted. If the valve spindle cannot be made movable again, the TS upper part (1 **6390** 91) of the HERZ FLOORFIX COMPACT can be exchanged.

Installation instructions

The lower edge of the HERZ-FLOORFIX COMPACT must be placed at least 20 cm above the upper edge of the floor for floor heating applications. The front edge of the installation box must align with the surface of the finished wall. The opening of the installation box must point downwards. For easy access, the HERZ FLOORFIX COMPACT can be installed at the level of a light switch. The effect of external heat energy on the sensor elements must be avoided, as this can have a significant impact on the regulation. Possible additional external heat energy sources are:

- other heating sources (additional radiators, etc.)
- direct sunlight on the thermostat
- drafts

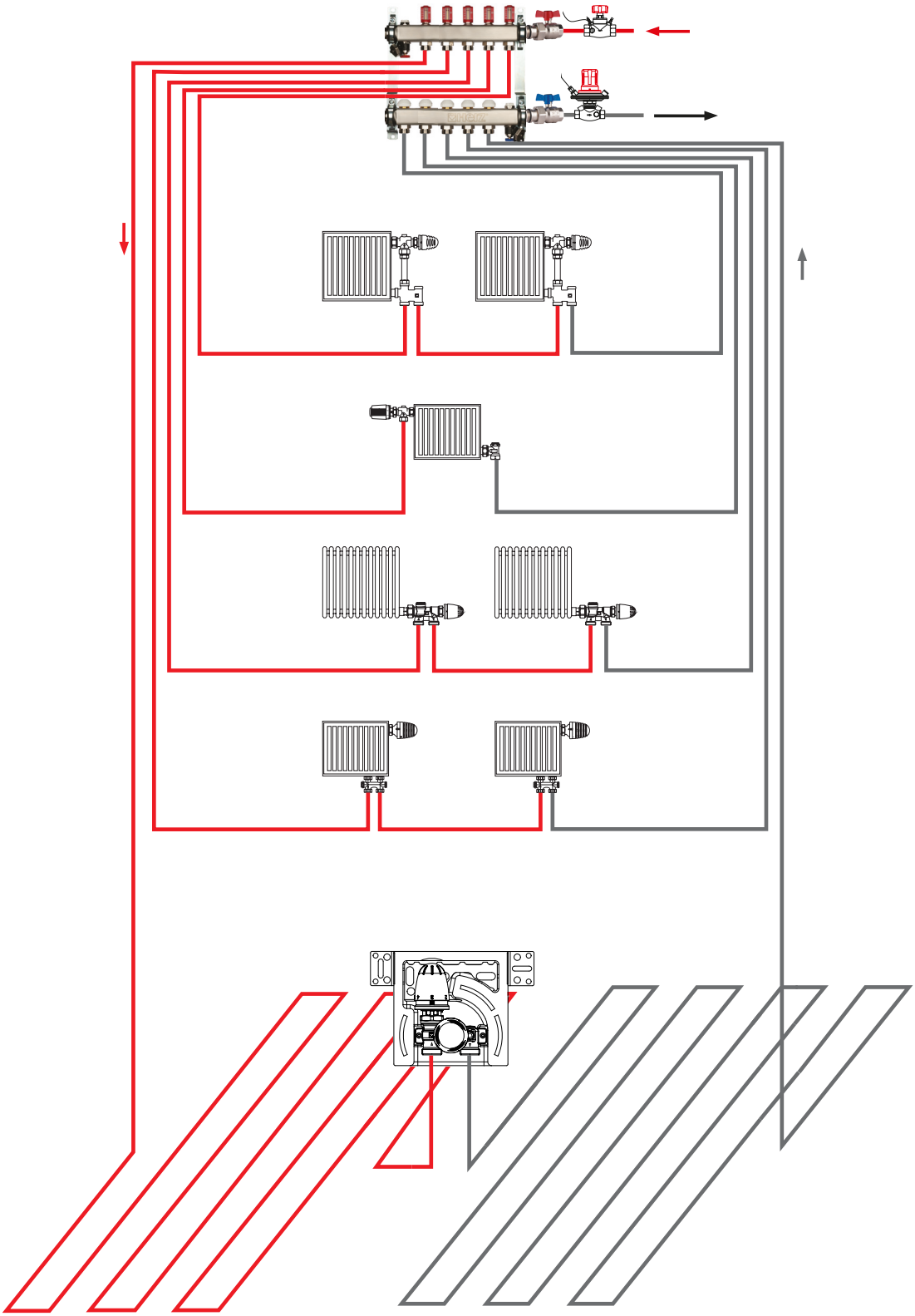
Take into account tile and plaster thicknesses when installing.

Laying the pipeline to the HERZ-FLOORFIX COMPACT:

1. Create a branch from the supply pipe of the system and lay the heating circuit in a meandering pattern.
2. The FLOORFIX COMPACT should be connected approximately halfway the pipe length of the floor heating circuit. Stick to the flow direction indicators on the valve, when connecting the pipes to the valve body.
3. Then lay the pipeline further and lead it eventually back to the return pipe of the system.

Note for hydraulic balancing

A floor heating circuit usually has a higher pressure drop than a radiator circuit. All heating circuits must be hydraulically balanced to one another in the system.

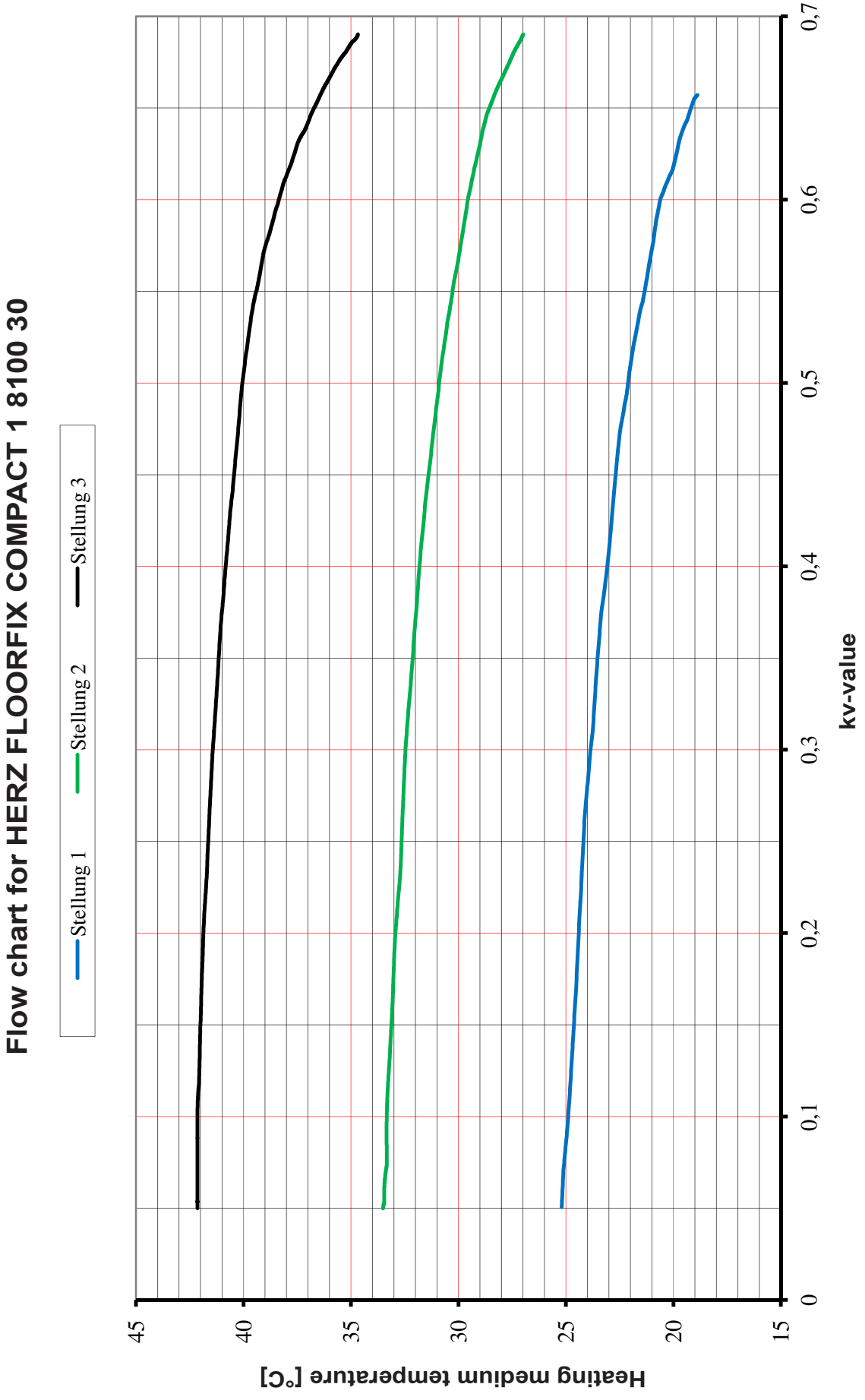


Material

HERZ uses high quality brass.
Pursuant to Article 33 of the REACH Regulation (EC No. 1907/2006), we are obliged to point out that the material lead is listed on the SVHC list and that all brass components manufactured in our products exceed 0.1 % (w / w) lead (CAS: 7439-92-1 / EINECS: 231-100-4). Since lead is a component part of an alloy, actual exposure is not possible and therefore no additional information on safe use is necessary.

Recycling and disposal

Disposal must comply with local and current legislation. Prior to the assembly, maintenance and disassembly, the system must be depressurized, cooled down and emptied. Only authorized, trained and qualified personnel may perform activities of assembly, start-up, operation and disassembly of the equipment. Before disposal the valve must be dismantled into groups of structural components and delivered to authorized waste recycling organizations in order to preserve the environment. Local legislations must be obeyed when disposing of the components.


Flow chart for HERZ FLOORFIX COMPACT 1 8100 30
Stellung 1
Stellung 2
Stellung 3
Heating medium temperature [°C]
45
40
35
30
25
20
15
0
0,1
0,2
0,3
0,4
0,5
0,6
0,7
kv-value

INSTALLATION INSTRUCTIONS FOR HERZ- FLOORFIX COMPACT

Zone valve for individual room temperature control for floor heating

1 **8100** 30, Issue 0221

Step 1

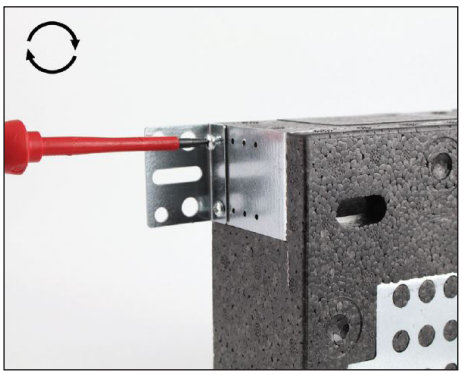
Unpack the fitting with all the corresponding components supplied. To connect the pipes to the valve, pipe connections which match the type of pipe are required.

Step 2

Separate the EPP-box from the brass body. To do this, loosen the screws that are attached to the side of the brass body with an Allen key SW 3.

Step 3

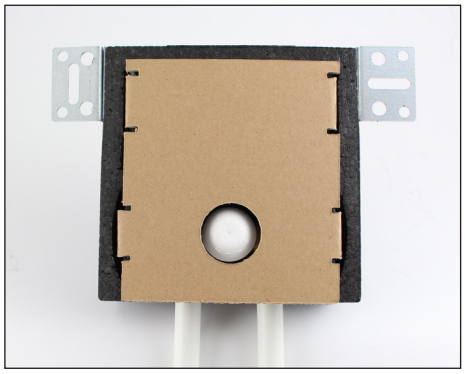
Connect the pipes to the brass body with the appropriate pipe connections using a suitable tool. The brass body can then be screwed back onto the EPP-box.



Step 4

Fix the enclosed metal brackets with the corresponding screws on each side of the EPP-box. Two pointed screws are required on each side. With the metal brackets, the box can now be installed flush with the wall.

Consider tile and plaster thicknesses when installing.

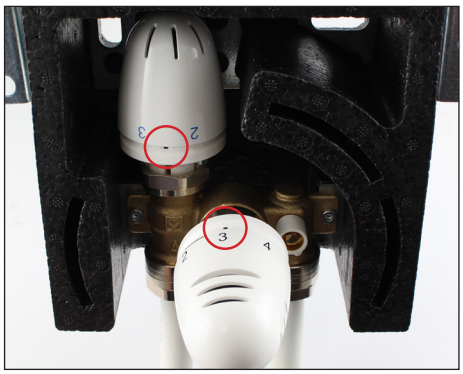


Step 5

The cardboard protective cover can be placed over the product to protect it from damage during construction works.

Step 6

Set the enclosed thermostatic head to position „5“. Place it on the thermostatic insert of the FLOORFIX COMPACT and fix it by tightening the union nut.



Step 7

We recommend setting the HERZ return temperature limiter MINI GS to position „2.5“ (equals approx. 40 °C).
The HERZ-Design-thermostatic head MINI should be set to position „3“. This equals a setpoint temperature of approximately 20 °C in the room and represents an optimum of comfort, energy savings and heating comfort.

Step 8

Finally, fix the cover plate using the openings provided on the EPP-box. The cover plate can be rotated a few degrees if necessary.