

HERZ stainless steel distributor with automatic air vent

Dimension DN25

Datasheet 1 863X XX, Issue 0425

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General information

☑ Description of HERZ - Distributors for floor heating systems

HERZ - Distributors for floor heating systems are high quality products that are assembled and pressure tested during the manufacturing process under constant quality control.

Advantages of HERZ - Distributors for floor heating systems are:

- all integrated components are the result of our own development
- · possibility of high pressure, high or low temperature and high flow of medium
- easy to use and maintain
- · reliable design and long service life
- · permanent quality control of production in our own factories
- easy installation
- possibility from 2 to 16 heating circuits
- · compatibility with other HERZ products
- · automatic air vent and drain valve integrated
- flowmeters 3 l/min and 6 l/min

□ Field of application

HERZ - Distributors are used in floor heating systems, wall heating systems or ceiling heating. When using a version with flow meter the individual heating circuits can be regulated. The distribution bars are each closed on one side with a plug. Distributor input is female threaded G1″ so it is possible to connect distributor with threaded pipes or with an adapter for HERZ PIPEFIX. We recommend to use HERZ shut-off valves or HERZ ball valves.

☑ Assembly instruction

The HERZ - Distributors for floor heating systems can be mounted using the supplied brackets distribution directly to a wall or in a distributor cabinet. The mounting position is arbitrary, the automatic air vent must be in an upright position. Distributor with flow meter must always be used in the supply flow. The factory setting is fully open and be adjusted by using the supplied adjusting key turned clockwise. The set amount of flow volume can be read directly at the inspection glass. HERZ-Cabinets must be ordered separately, see separate data sheet, product code 1 8569 XX.

☑ Maintenance instruction

No mineral oil lubricant may be used for the maintenance of valves. Usage of these materials will damage sealing elements. Silicone-based lubricant are allowed. To avoid sticking of thermostatic valves monthly operating is recommended.

☑ Disposal instruction

The disposal of HERZ - Distributors for floor heating systems must not endanger the health or the environment. National legal regulations for proper disposal of the HERZ - Distributors for floor heating systems have to be followed.



™ Models:

1 **8638** 02 - 16 Supply flow distributor rod G1" with flowmeter 0 – 3 l/min

Return flow distributor rod G1" with thermostatic valves

1 **8639** 02 - 16 Supply flow distributor rod G1" with flowmeter 0 – 6 l/min

Return flow distributor rod G1" with thermostatic valves

☑ Material and construction

Rod distributor: Stainless steel X5, CrNi 1810

Thermostatic valves: Brass, EN 12164

Sealings: EPDM Caps: Plastic PP

Springs: Stainless steel X7, CrNiAl 17 7 Internal threaded side connection: G 1" acc. to ISO 228-1

External threaded bottom connection: G 3/4" acc. to ISO 228-1, cone sealing

External threaded bottom connection. G 3/4 acc. to 150 226-1, cone sealing

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.

Operating data

Max. operating pressure 6 bar

Test pressure 10 bar at t = 20 °C

Max. operating temperature 70 °C Min. operating temperature 2 °C

Medium:

Heating water quality according to ÖNORM H5195 or VDI-Standard 2035. The use of ethylene or propylene glycol in a mixing ratio 25- 50% is allowed. Please refer to manufacturers documentation when using ethylene glycol products for frost and corrosion protection. Please note that EPDM gaskets will be affected by Mineral oils lubricants and thus lead to failure of the EPDM seals in the valves that use EPDM seals. The HERZ - Distributors for floor heating systems is not suitable for usage of agressive medium (such as: acids, alkalis, combustible and explosive gases.) because it can destroy sealing components.

The actually permissible operating data depends on the pipes or clamp connections used.

Example: if plastic pipe connections are used the bottom operation data is allowed (if approved by pipe manufacturer).

Max. operating temperature 70 °C Max. operating pressure 6 bar

Higher operating pressure is permitted only after written approval by HERZ. When using HERZ compression unions for copper and steel pipes, the permissible temperature and pressure ratings according to EN 1254-2:2021

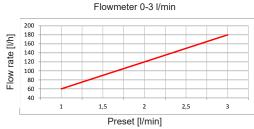


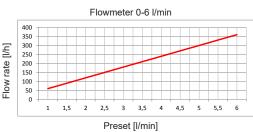
□ Function principle of components

Flowmeter valves

The factory setting is fully open. The set amount of flow volume can be read directly at the inspection glass. To adjust the flow volume use plastic adjustment key on top of the knurl and rotate clockwise or counter-clockwice.

Conversion table [I/min] --> [I/h]









Set G1", automatic air vent and draining ball valve with spigot

On the supply and return rod, the automatic air vent and drain ball valve with spigot is provided. The T-handle is operated by hand to open (rotate counter-clockwise) and close (rotate clockwise) the draining ball valve. The drain ball valve is used for filling and emptying systems. After use, close the ball valve. Under no circumstances should the drain ball valve be permanently open and integrated in the distribution system. The automatic air vent with backflow preventer ensures guaranteed venting of the system to the environment.



Thermostatic valves M28x1.5

Are opened by spring force and can be closed with protective cap, manual drive or thermal actuator. Protective caps are mounted on the thermostatic valves as mechanical protection during construction. These are to be replaced after commissioning by suitable electrical or mechanical drives. The thermostatic upper parts can be equipped with a manual drive 1 9102 80 or thermal actuators, these must be ordered separately. Thermal actuators are available in 24 V or 230 V, NC (normally closed) or NO (normally open) available. The thermal drives can be operated by means of room temperature control or radio control. Room temperature control or wireless control are described in separate data sheets, product code see accessoires.





Brackets

The HERZ rod distributors can be mounted using the supplied brackets distribution directly to a wall or in a distributor cabinet. The mounting position is arbitrary.



Note!

Thermostatic valves and flowmeters are not shut-off devices. Unfilled heating circuits must be closed with a cap at the outlet.

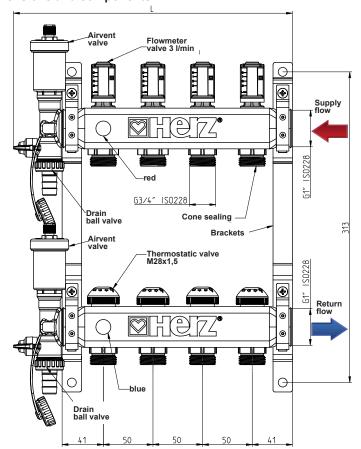


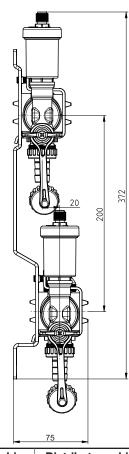
HERZ stainless steel distributor with automatic air vent

flow meter 3 L/min / thermostatic valves

Datasheet 1 8638 XX

Dimensions and components





				<u> </u>	
Order Nr.	Outlets	L [mm]	Distributor cabinet **	Distributor cabi- net with ball valve straight model	Distributor cabinet with ball valve angle model
1 8638 02	2	194		1 8569 04	1 8569 03
1 8638 03	3	244	1 8569 03 (L=354mm)	4.0500.05	1 8569 04
1 8638 04*	4	294	1 8568	1 8569 05	1 8569 05
1 8638 05	5	343	1 8569 04 (L=404mm)	1 8569 10	1 8569 10
1 8638 06	6	393	1 8569 05 (L=458mm)	8569 05 (L=458mm) 8569 10 (L=543mm) 1 8569 15	1 8569 15
1 8638 07	7	443	4.0500.40 (1540)		
1 8638 08	8	493	1 8569 10 (L=543mm)		
1 8638 09	9	543			1 8569 20
1 8638 10	10	593	1 8569 15 (L=693mm)	1 8569 20	
1 8638 11	11	643			
1 8638 12	12	693	1 8569 20 (L=843mm)	1 8569 20	1 8569 20
1 8638 13	13	743		4.0500.05	4.0500.05
1 8638 14	14	793		1 8569 25	1 8569 25
1 8638 15	15	843	1 8569 25 (L=993mm)	1 8569 25	1 8569 25
1 8638 16	16	893		1 8569 30	1 8569 30

^{*1 8638 04} is shown on the drawing above.
**Minimum size for distributor cabinet. By using shut-off valves the size of distributor cabinet has to be dimensioned larger.

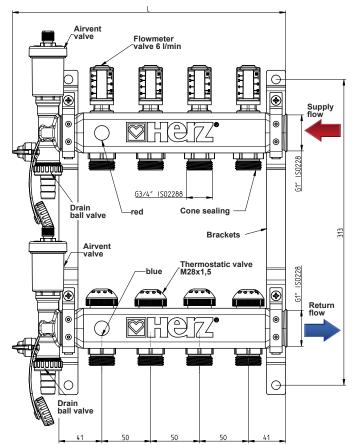


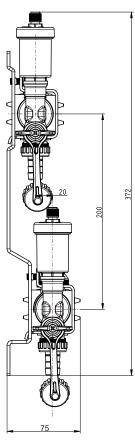
HERZ stainless steel distributor

flow meter 6 L/min / thermostatic valves

Datasheet 1 8639 XX

☑ Dimensions and components

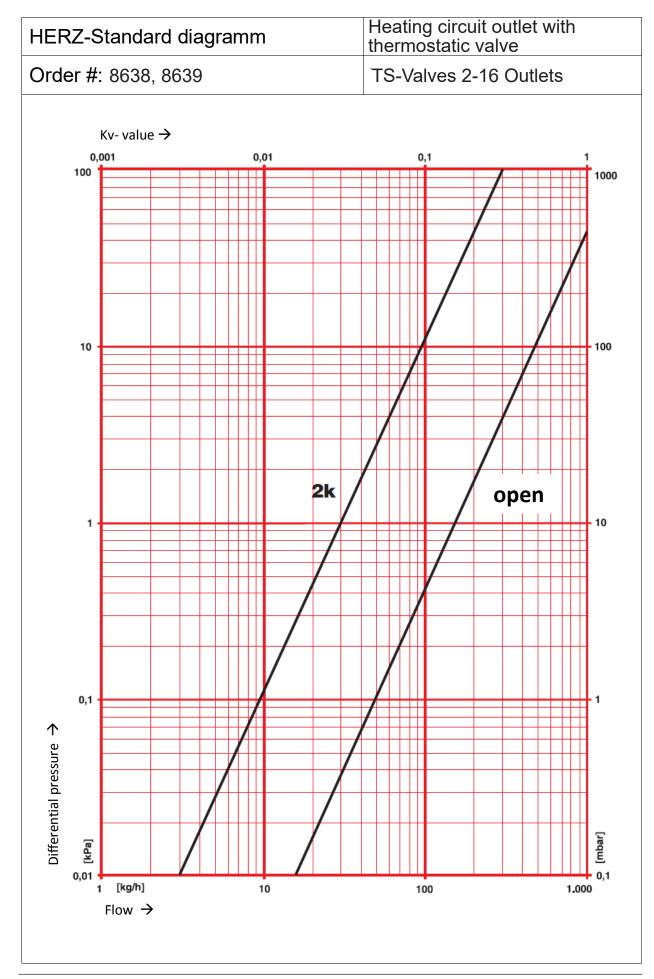




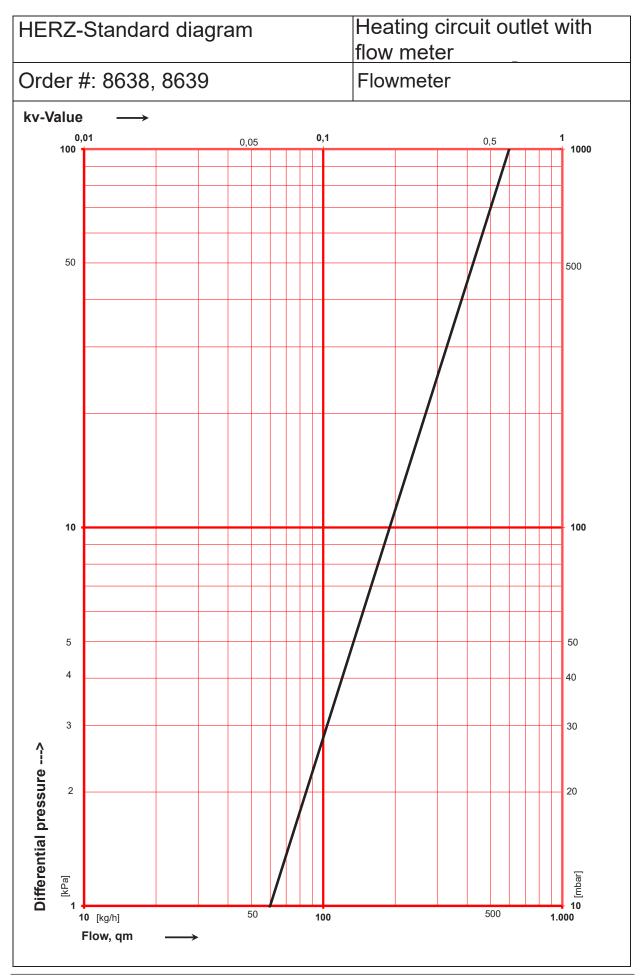
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HERZ stainless steel distributor SPARE PARTS and ACCESSORIES

Illustration	Description	Item number	Suitable with
	Thermal Actuator 24 V NC	1 7708 52	1 8638 XX 1 8639 XX
	Thermal Actuator 230 V NC	1 7708 53	1 8638 XX 1 8639 XX
ZZERIYE	Manual Drive	1 9102 80	1 8638 XX 1 8639 XX
	Upper thermostatic insert	1 6403 31	1 8638 XX 1 8639 XX
	Flow meter 3 l/min	3 F900 33	1 8638 XX
	Flow meter 6 l/min	3 F900 36	1 8639 XX
	Automatic air vent and drain ball valve with spigot, set Threaded connenction G1"	1 8635 57	1 8638 XX 1 8639 XX
	Hose connection	1 6206 01	1 8635 57



esva desta d	HERZ - MODUL angled ball valve RED, O-ring sealing on the distributor, screw connection to the ball valve	1 2224 03	1 8638 XX 1 8639 XX
SSAG SSAG	HERZ - MODUL angled ball valve BLUE, O-ring sealing on the distributor, screw connection to the ball valve	1 2224 13	1 8638 XX 1 8639 XX
ES NO E	HERZ - MODUL straight ball valve RED, O-ring sealing on the distributor, screw connection to the ball valve	1 2205 13	1 8638 XX 1 8639 XX
as 100 g	HERZ - MODUL straight ball valve BLUE, O-ring sealing on the distributor, screw connection to the ball valve	1 2205 23	1 8638 XX 1 8639 XX

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