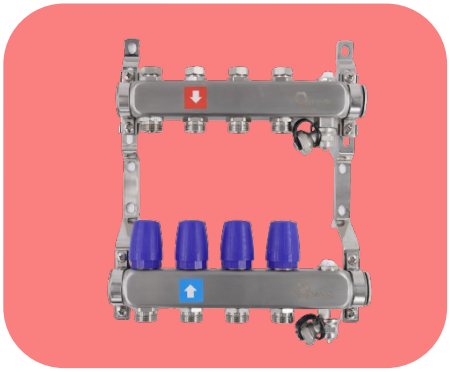
Stainless steel manifold block
without flowmeters,
with air vents and drain valves

ZQSSM0425W02-12

zencQ

0015 / 01 / 23 EN



PRODUCT DESCRIPTION

Manifold blocks are designed to distribute the flow of the working medium of water heating systems to consumers. In this case, the “consumer” is understood as a separate heating device or a group of devices, a circuit or a UFH loop, individual parts or branches of the system.

The manifold block combines stainless steel supply and return manifolds, shut-off valves, thermostatic valves (with the possibility of installing an electrothermal actuator) and mounting brackets.

Manifold blocks can operate both on water and low-freezing (glycol) coolant.

Manifold blocks are produced with the number of outputs from 2 to 12.

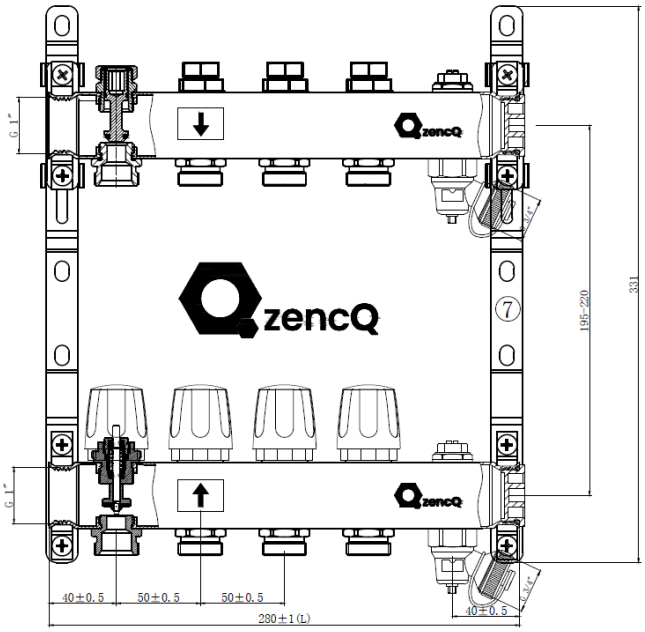
Accession of circulation loops is carried out by means of a fitting of the Eurocone standard 3/4" (M).

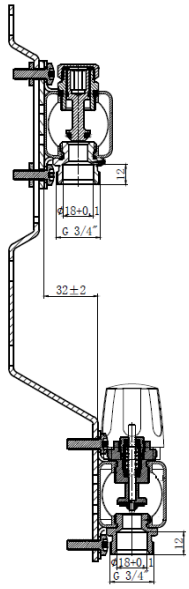
The units are equipped with a manual valve for air removal and a drain valve for draining/filling the system with working medium.

TECHNICAL PARAMETERS	
Maximum working medium temperature	90 °C
Permissible ambient temperatures	-10 ÷ +40 °C
Working pressure PN	10 bar
Outlet thread diameter	¾"
Thermostatic valve thread diameter	M30*1,5
Center distance (between outputs)	50 mm
Thread type	Cylindrical
Wall thickness	1,5 mm

ASSORTMENT			
2 outlets	ZQSSM0425W02	8 outlets	ZQSSM0425W08
3 outlets	ZQSSM0425W03	9 outlets	ZQSSM0425W09
4 outlets	ZQSSM0425W04	10 outlets	ZQSSM0425W10
5 outlets	ZQSSM0425W05	11 outlets	ZQSSM0425W11
6 outlets	ZQSSM0425W06	12 outlets	ZQSSM0425W12
7 outlets	ZQSSM0425W07		

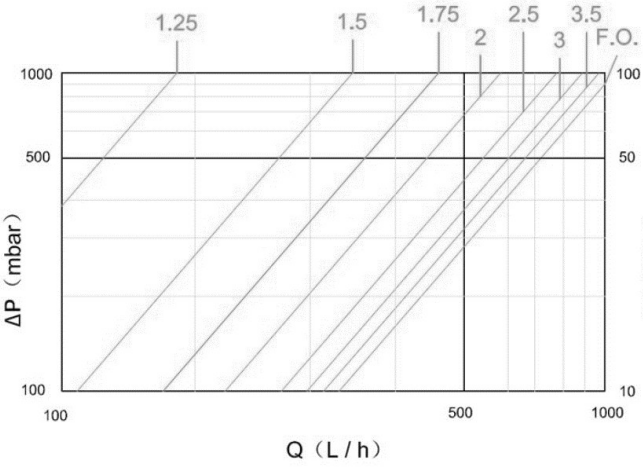
DIMENSIONS

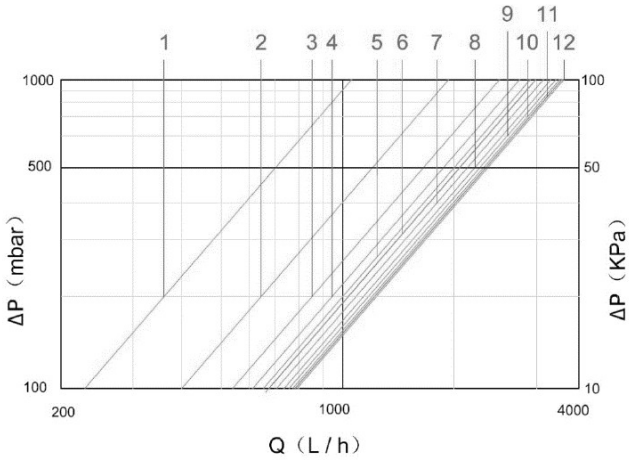




DIMENSIONS, L (mm)	
2	180
3	230
4	280
5	330
6	380
7	430
8	480
9	530
10	580
11	630
12	680

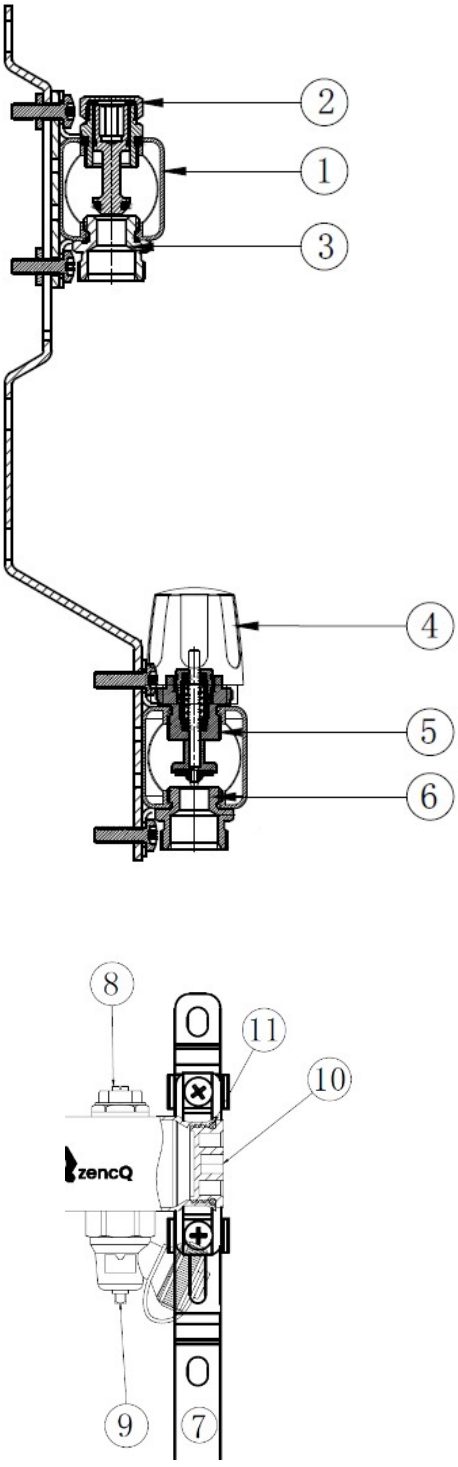
HYDRAULIC DATA





FLOW RATE OF LOCKSHIELD								
Turns	1,25	1,5	1,75	2	2,5	3	3,5	F.O.
Kv, m3/h	0,12	0,33	0,47	0,57	0,77	0,88	0,95	1,02

FLOW RATE OF MANIFOLD BEAM											
Outlets	2	3	4	5	6	7	8	9	10	11	12
Kv, m3/h	1,65	2,23	2,55	2,81	2,97	3,13	3,26	3,34	3,38	3,42	3,5



OPERATING PRINCIPLE

The transported medium enters the supply manifold (1) with shut-off valves (2), which is made of AISI304 stainless steel. Further, it is distributed along the contours passing through the mating part of the valve (3).

The cooled water returns to the lower beam with thermostatic valves (5) passing through their mating part (6). The thread on the adjustable part of the valve is M30 * 1.5. It is possible to install a servomotor or an electrothermal head on a thermostatic valve. In the basic delivery, the valve is completed with an adjustable cover (4).

Manifold beams are placed on fasteners (7).

A manual valve (8) is used to release the air. For filling / draining the coolant, a drain valve (9).

DESIGN AND MATERIALS		
1	Body	Stainless steel AISI304
2	Lockshield	Brass CW617N
3	Counter part of lockshield	Brass CW617N
4	Thermostatic valve cap	ABS plastic
5	Thermostatic valve	Brass CW617N
6	Counterpart of the thermostatic valve	Brass CW617N
7	Brackets	Steel A3
8	Manual air vent	Brass CW617N
9	Drain valve	Brass CW617N
10	Cap	Brass CW617N
11	Seal	EPDM

OPERATION AND MAINTENANCE REQUIREMENTS

1. Manifolds must be operated at the pressure and temperature specified in the specification table.
2. It is strictly forbidden to allow the working medium to freeze inside the manifold.
3. Disassembly of the manifold is allowed only when the coolant is drained.
4. To connect pipelines to manifold terminals, use the following types of connectors:

CONNECTORS			
№	Code	Nut thread	Pipe parameters, mm
1	ZQEK001	¾"	16*2,0
2	ZQEK002	¾"	16*2,2

INSTALLATION REQUIREMENTS

1.The fittings should not experience loads from the pipeline (during bending, compression, tension, torsion, distortion, vibration, uneven tightening of fasteners, etc.). If necessary, supports or compensators should be provided to eliminate the load on the fittings from the pipeline.
2. The misalignment of the connected pipelines should not exceed 3 mm with a length of up to 1 m plus 1 mm for each subsequent meter.
3. Lever spanners are not allowed for mounting.
4. It is recommended to install the manifolds with the air vent up in a vertical position.
5. The assembly of the manifold block and the connection of pipelines should be carried out using sealing materials.
6. Balancing of the contours of the warm floor is carried out using flow meters.
7. Thermostatic valves should be on the return manifold, and flow meters with control valves should be on the supply manifold.
8. After installation, the system must be subjected to a hydraulic test with a static pressure of 1.5 times the design working pressure in the system, but not less than 6 bar.

MANUFACTURER

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Country of origin: China

Brand **zencQ** belongs to **NEORUBY GmbH**

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