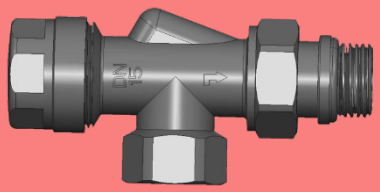
Thermostatic valve with presetting and additional seal

ZQTRV311D15
ZQTRV312D15
ZQTRV413D15

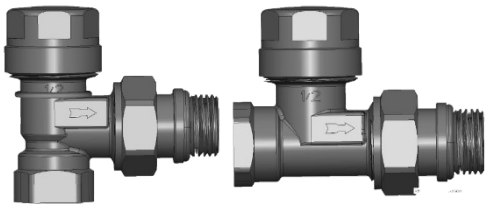
0010 / 01 / 23 EN



ZQTRV413D15

PRODUCT DESCRIPTION

The valves are used for smooth automatic control of the coolant flow in water heating systems. To perform the automatic control function and to achieve maximum efficiency, heating systems are used in tandem with a thermostatic head.
Thermostatic valves can be used on pipelines of drinking and domestic drinking systems, hot water supply, as well as on process pipelines transporting liquids that are not aggressive to valve materials.
The presence of a dismountable connection allows you to mount and dismantle the valve without dismantling the pipeline. The main purpose of the valve is to regulate the flow of coolant through heating devices.

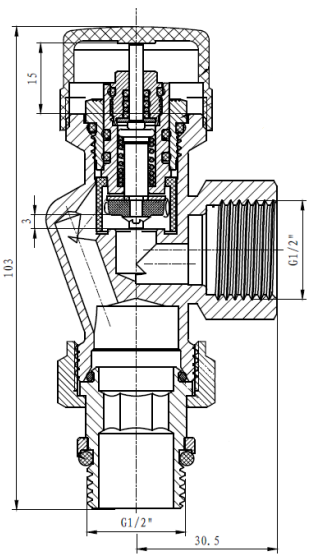


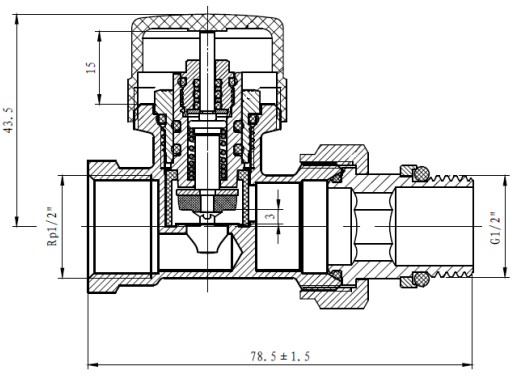
ZQTRV311D15 ZQTRV312D15

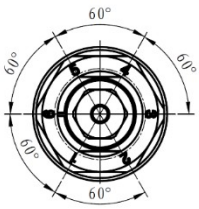
TECHNICAL PARAMETERS

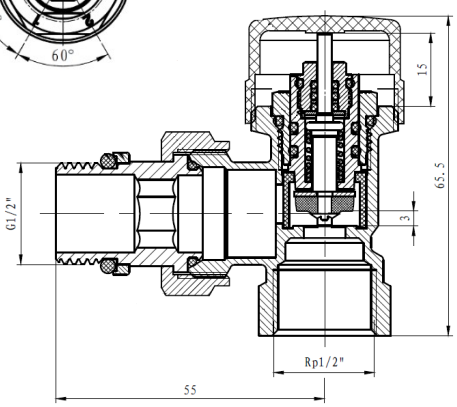
Nominal diameter	1/2"
Nominal working pressure, PN	10 bar
Test pressure	16 abr
Maximum working temperature	110 °C
Connection type	Threaded
Standard on threaded connection	ISO288/1
Permissible bending moment on the valve body	85 Nm
The size of the connection of the thermal head	M30*1,5

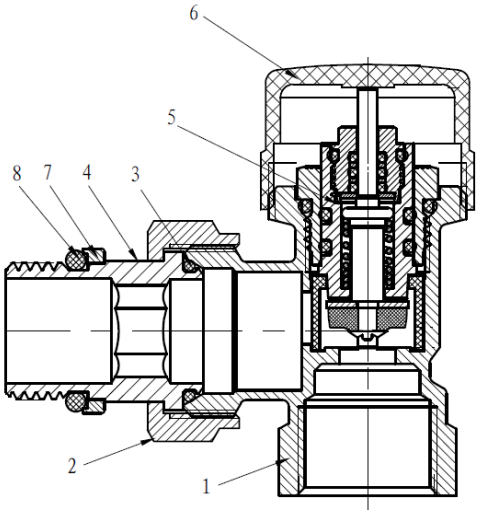
DIMENSIONS











CONSTRUCTION AND MATERIALS		
1	Body	Brass CW617N
2	Union nut	Brass CW617N
3	O-ring	EPDM
4	Fitting	Brass CW617N
5	Adjustment cartridge	Brass CW617N
6	Cap	PP
7	Stop ring	Brass CW617N
8	O-ring	EPDM

PRINCIPLE OF WORK

Valve body 1 is made of CW617N brass by hot stamping. A fitting 4 is connected to the housing through an EPDM gasket 3. The half-horn pipe is attached to the housing with a union nut 2. The pipe and nut are also made of CV617N brass. Sealing when the flow is blocked is provided by a seal.

A plastic cap 6 is used for the valves.

For automated regulation of the valve, it is necessary to use a thermal head. To do this, it is necessary to remove cap 6.

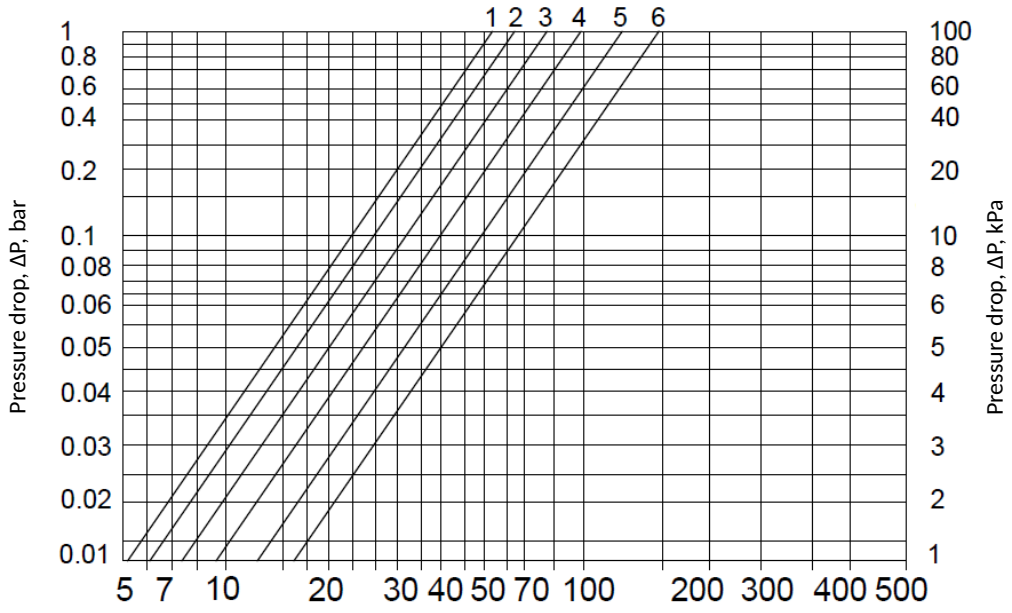
HYDRAULIC CHARACTERISTICS

FLOW CAPACITY, l/h. Straight thermostatic valve ZQTRV31D15							
Presetting	1	2	3	4	5	6	N
S1-K	11	26	46	54	73	104	115
S2-K	11	26	51	77	97	154	195
Max	11	26	51	79	116	177	285

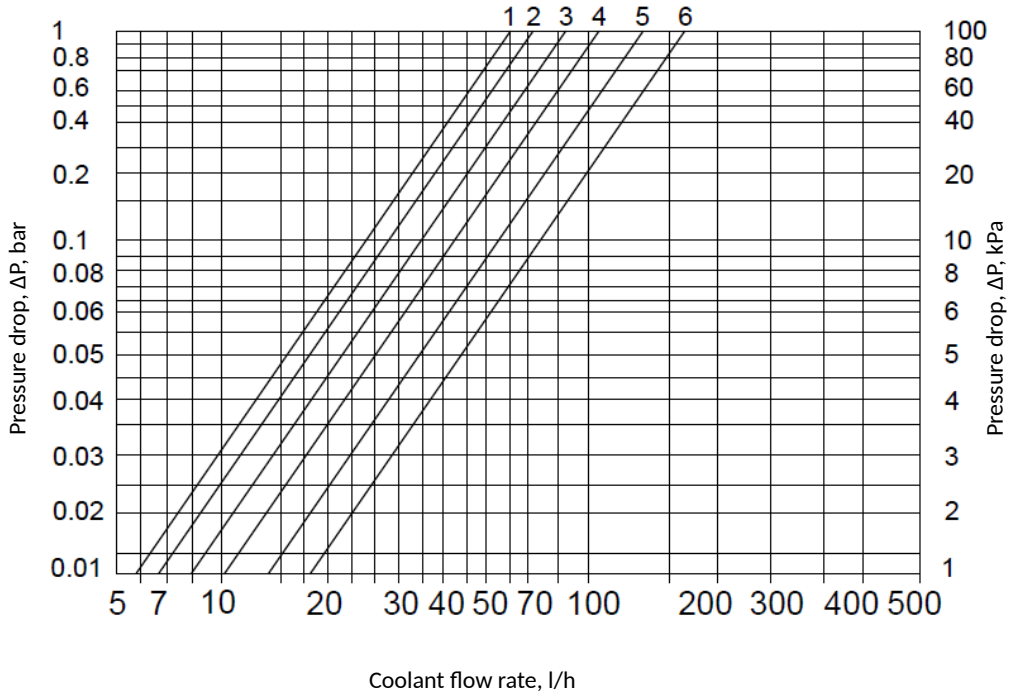
FLOW CAPACITY, l/h. Angular and axial thermostatic valves ZQTRV311D15, ZQTRV413D15							
Presetting	1	2	3	4	5	6	N
S1-K	15	32	57	65	85	115	135
S2-K	19	38	65	89	108	167	195
Max	19	38	65	89	127	186	310

The data are obtained at a pressure drop of ΔP = 10 kPa

Straight thermostatic valve ZQTRV312D15



Angular and axial thermostatic valves ZQTRV311D15, ZQTRV413D15



INSTALLATION REQUIREMENTS

1. The valve can be installed in any mounting position.
2. The valve should not experience loads from the pipeline (bending, compression, stretching, torsion, distortions, vibration, misalignment of nozzles, uneven tightening of fasteners). If necessary, supports or compensators should be provided to reduce the load on the fittings from the pipeline.
3. Misalignment of connected pipelines should not exceed 3 mm for a length of up to 1 m plus 1 mm for each subsequent meter.
4. Installation of manual valves should be carried out in accordance with the requirements of relevant standards.
5. When installing the valve, the dismountable connection is first connected to the pipeline or device.
6. It is not allowed to use lever keys to install the valve.
7. This type of valve is equipped with decorative protective caps, which are installed on the connection thread of the thermostatic head with the function of protecting this thread and stem from external mechanical damage and clogging. It is forbidden to use a protective cap to block the coolant flow through the valve.
8. When installing the products, it is not allowed to exceed the maximum torque specified in the table of technical characteristics.

TORQUE LIMIT		
1	Thread	30 Nm
2	Union nut	25 Nm
3	Body	85 Nm

OPERATION AND MAINTENANCE REQUIREMENTS

1. Valves must be operated at the pressure and temperature specified in the specification table.
2. Do not operate the valve with a loose handle screw.
3. It is strictly forbidden to allow the working medium to freeze inside the valve. When draining the system in winter, the valve must be left half open.
4. Do not operate the valve with the stem retaining ring removed.
5. Disassembly of the valve is allowed only when the coolant is drained.

MANUFACTURER

ZUOYOU GLOBAL BUSINESS LIMITED
Address of production: Shamen Industrial Area, Yuhuan, Taizhou, Zhejiang, China 317607
Country of origin: China