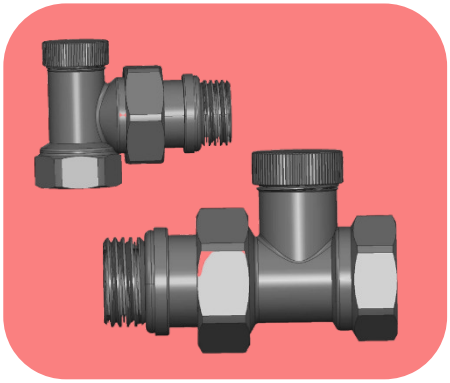
Lockshield with additional seal

ZQLOC112D15
ZQLOC111D15

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PRODUCT DESCRIPTION

Lockshields are designed for installation adjustment (balancing) of the calculated coolant flow through the heaters of water heating systems. Another important function is to turn off the heater.

Lockshields can also 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 half-grip allows you to mount and dismantle the Lockshield without dismantling the pipeline.

The brass plug protects the valve from unauthorized intervention in the mounting setting.



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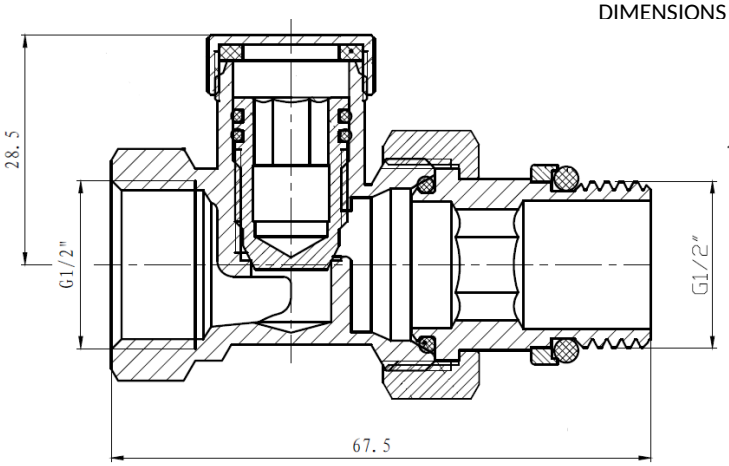


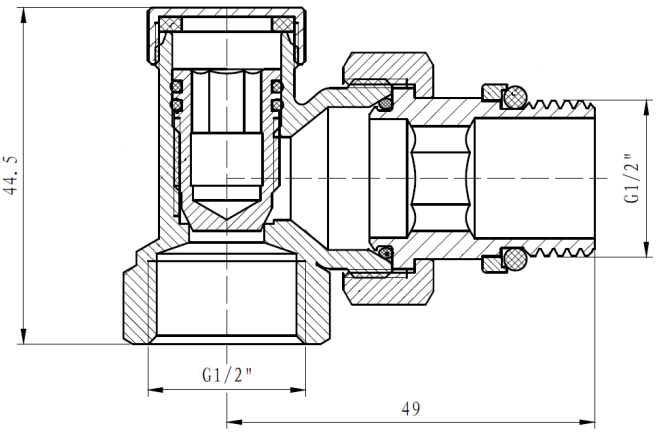
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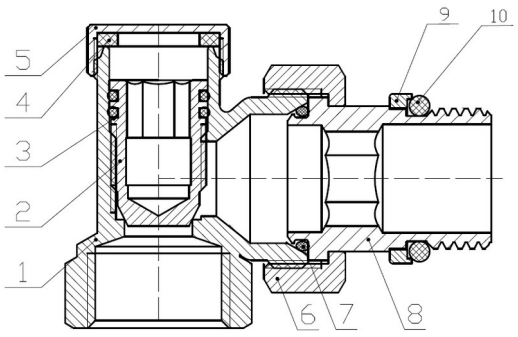
TECHNICAL PARAMETERS

Nominal diameter	1/2"
Nominal operating pressure, PN	10 bar
Test pressure	16 bar
Maximum operating temperature	110 °C
Connection type	Threaded
Threaded connection standard	ISO288/1
Permissible bending moment on the valve body	85 Nm
Throughput Kv at differential pressure ΔP = 10 kPa (ZQLOC112D15)	395 l/h
Throughput Kv at differential pressure ΔP = 10 kPa (ZQLOC111D15)	573 l/h

DIMENSIONS







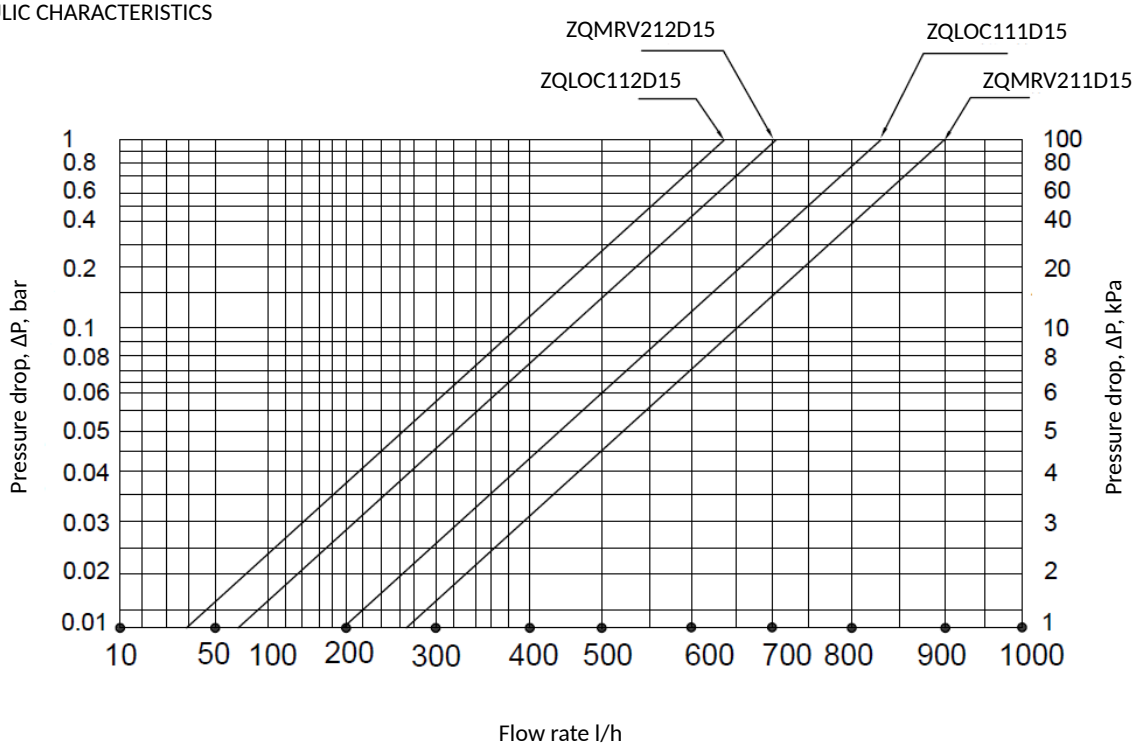
CONSTRUCTION AND MATERIALS

1	Body	Brass CW617N
2	Stem	Brass CW617N
3	O-ring (2 pcs)	EPDM
4	Seal	EPDM
5	Cap	Brass CW617N
6	Union nut	Brass CW617N
7	O-ring	EPDM
8	Union	Brass CW617N
9	Стопорное кольцо	Brass CW617N
10	Seal	EPDM

OPERATING PRINCIPLE

Valve body 1 is made of brass CW617N by hot stamping. To the body through a sealing gasket made of EPDM 7, a half-grip branch pipe 8 is attached. The half-grip branch pipe is attached to the body using a union nut 6. A retaining ring 9 with an EPDM seal 10 is located on the branch pipe fitting. Brass stem 2 is sealed with EPDM rings 3. A hex wrench is required to adjust and adjust the valve. To protect against unauthorized intervention in the valve setting, a plug 5 with a seal 4 is used.

HYDRAULIC CHARACTERISTICS



INSTALLATION REQUIREMENTS

1. The valve can be installed in any mounting position.
2. The valve must not experience loads from the pipeline (bending, compression, tension, torsion, misalignment, vibration, nozzle misalignment, uneven tightening of fasteners). If necessary, supports or compensators should be provided to reduce the load on the fittings from the pipeline.
3. The misalignment of the connected pipelines should not exceed 3mm for a length of up to 1m plus 1mm 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 first to connect to the pipeline or device is the branch pipe of the dismountable connection.
6. Do not use lever wrenches to mount the valve.
7. When mounting products, do not exceed the torque limit indicated in the specification table.

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

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Country of origin: China