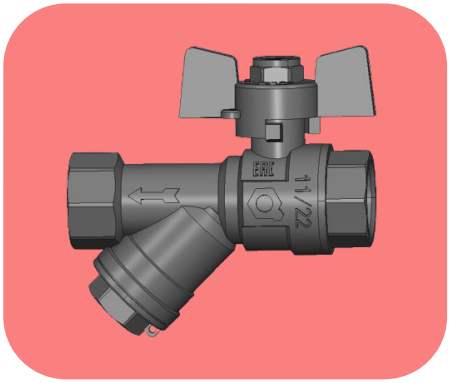
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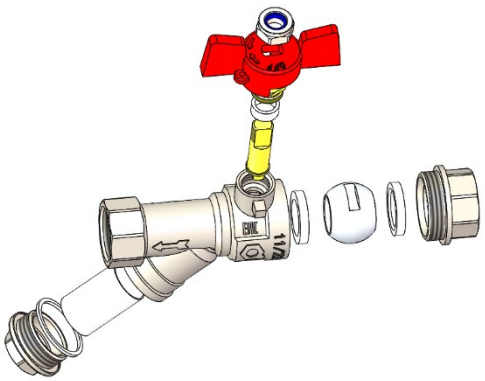
PRODUCT DESCRIPTION

Ball valves are shut-off valves and are not designed to regulate flow. The main function is to block the flow of the working environment.

The presence of a built-in coarse filter allows for preliminary cleaning of the flow from mechanical impurities.

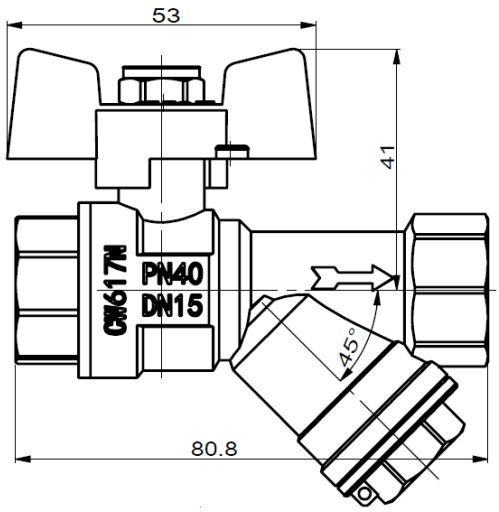
The main purpose of the valve is to install cold and hot water at the apartment input.

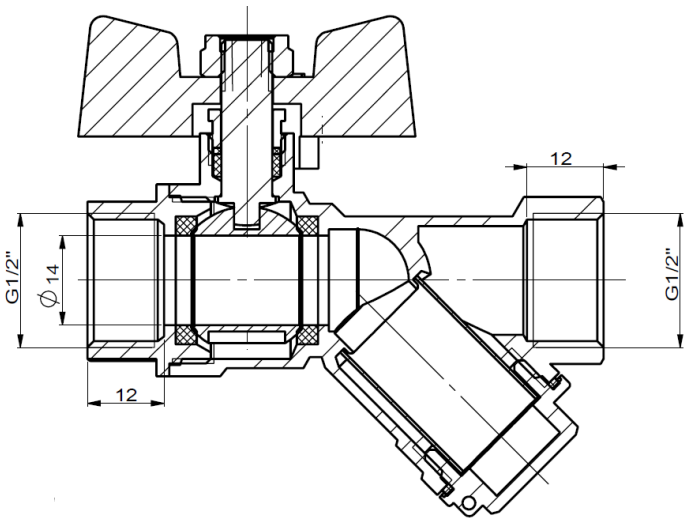
Ball valves must not be used as control valves.



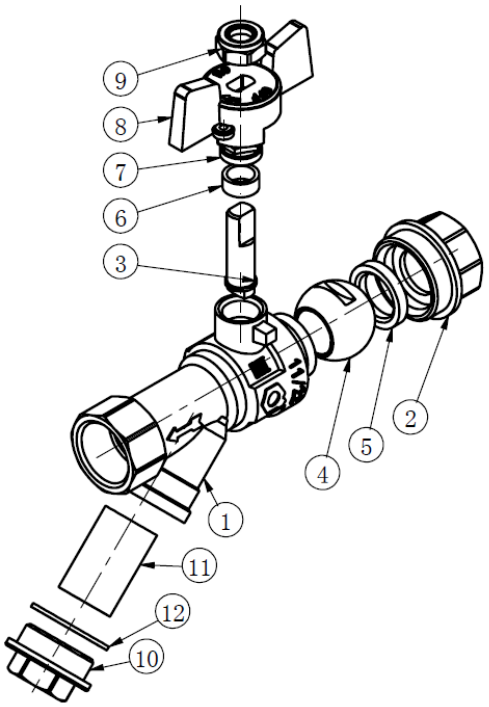
TECHNICAL PARAMETERS	
Closure tightness class	A
Reparability	Yes
Nominal diameter	1/2"
Nominal operating pressure, PN	40 bar
Maximum operating temperature	100 °C
Connection type	Threaded
Threaded connection standard	ISO288/1
Type of flow section	Full bore
Filter element size	500 microns

DIMENSIONS





DESIGN AND MATERIALS		
1	Big half-body	Brass CW617N
2	Small half-body	Brass CW617N
3	Stem	Brass CW617N
4	Ball	Brass CW617N
5	Seat ring (2 pcs)	PTFE
6	Stem seal	PTFE
7	Washer	Brass CW617N
8	Handle	Aluminum
9	Handle fixing nut	Stainless steel AISI201
10	Filter cap	Brass CW617N
11	Filter element	Stainless steel AISI304
12	O-ring	PTFE



OPERATING PRINCIPLE

The ball valve consists of a composite brass body (1, 2), a ball (4), which is closed with a butterfly (8). The turning force of the butterfly on the ball is transmitted by a rod (3) with a PTFE seal (6).

The butterfly is attached to the stem with a nut (9).

The ball (4) is placed between teflon seat rings (5).

The ball valve is equipped with a filter element (11) made of stainless steel. It cleans the working environment from mechanical impurities (sand, rust, etc.).

INSTALLATION REQUIREMENTS

1. The valve can be installed in any mounting position.
2. The valve should not experience loads from the pipeline (bending, compression, tension, torsion, distortion, 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. The misalignment of the connected pipelines should not exceed 3mm for a length of up to 1m plus 1mm for each subsequent meter.
4. The coupling connection of valve must be performed using PTFE-tape or sanitary polyamide thread as sealing materials.
5. For installation of the valve, it is not allowed to use pipe lever wrenches higher than the second number, while it is allowed to act with the key only on the hexagon of the valve inlet pipe.
6. The valve with the filter is installed only in one direction in the flow of the medium. The correct direction is indicated by an arrow on the body.

OPERATION AND MAINTENANCE REQUIREMENTS

1. Valves must be operated at the pressure and temperature specified in the specification table.
2. It is not allowed to operate valve with a loose handle fastening screw.
3. It is strictly forbidden to allow the working medium to freeze inside the tap. When draining the system in winter, the valve must be left half-open so that the working medium does not remain in the cavities behind the shutter.
4. To prevent "sticking" of the ball valve to the seat rings, it is recommended to perform a forced closing/opening cycle of the valve once every 6 months.

MANUFACTURER

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