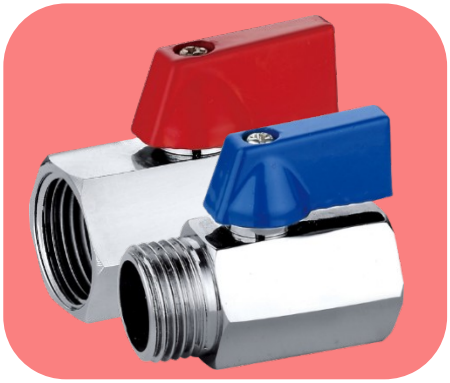
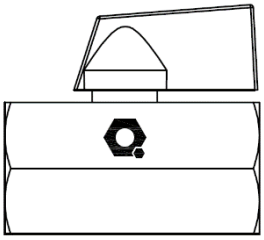
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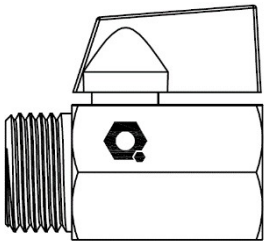


PRODUCT DESCRIPTION

Mini ball valves are used as shutoff valves on pipeline networks of cold and hot water (including drinking water), compressed air and other working media that are non-aggressive to the materials of the valve. The valve has a reduced passage, therefore it is installed directly in front of the devices to reduce pressure and prevent premature wear of water folding devices. The main scope of valve: installation in front of plumbing fixtures for their local shutdown.



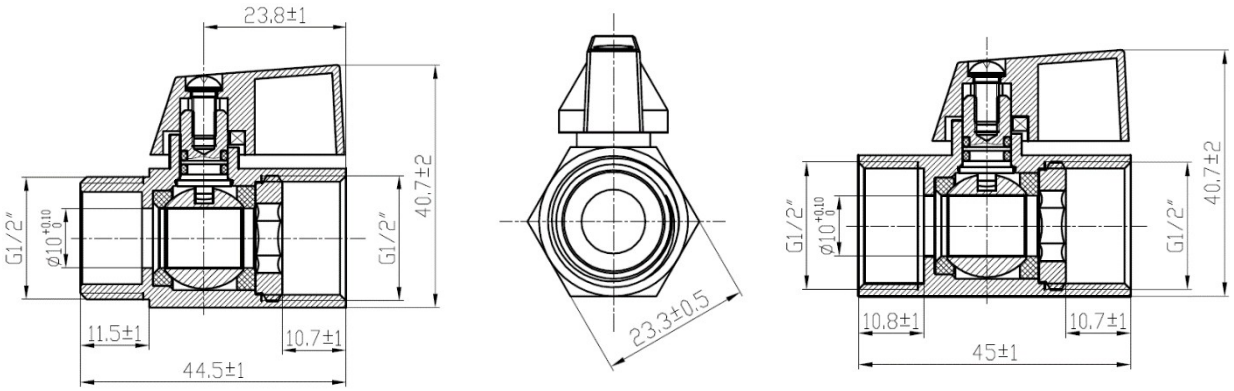
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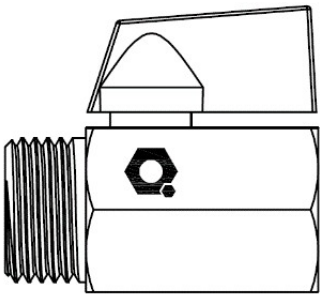
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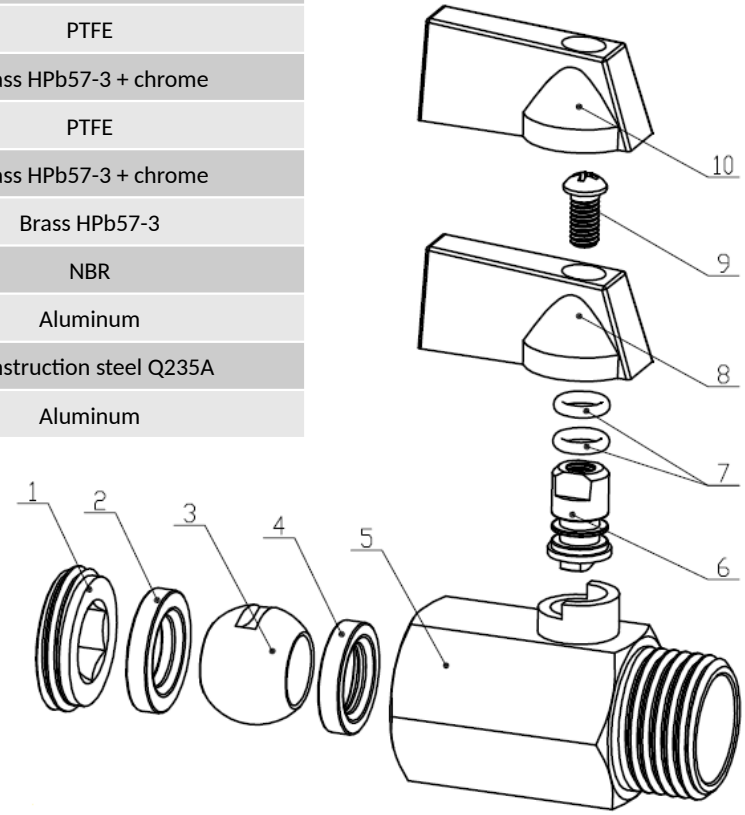
TECHNICAL PARAMETERS	
Closure tightness class	A
Average full life	4000 cycles
Mean time between failures (MTBF)	4000 cycles
Reparability	no
Nominal diameter	1/2"
Nominal operating pressure, PN	10 bar
Test pressure	16 bar
Maximum operating temperature	80 °C
Flow rate, Kv	3,72 m3/h
Connection type	Threaded
Threaded connection standard	ISO288/1
Permissible bending moment on the body of the product	75 Nm
Permissible mounting moment when making threaded connections	35 Nm

DIMENSIONS



DESIGN AND MATERIALS		
1	Fixed nut	Brass HPb57-3
2	Seat ring	PTFE
3	Ball	Brass HPb57-3 + chrome
4	Seat ring	PTFE
5	Body	Brass HPb57-3 + chrome
6	Stem	Brass HPb57-3
7	O-ringd	NBR
8	Butterfly handle (red)	Aluminum
9	Handle fixing bolt	Construction steel Q235A
10	Butterfly handle (blue)	Aluminum





OPERATING PRINCIPLE

The valve body (5) is made of hot-pressed chrome-plated brass. The brass fixing nut (1) has a hexagonal hole through which it is mounted in the body, providing a tight connection between teflon seat rings (2,4) and the brass chrome ball (3). The brass stem (6) is inserted from inside the body and sealed with NBR packing rings (7). A handle (8, 10) is attached to the stem with a structural steel screw (9). The valve is controlled by turning the handle 90 degrees.

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 + 1mm for each subsequent meter.
4. When mounting products, do not exceed the torque limit indicated in the specification table.

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 the valve with a loose handle fastening 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 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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Country of origin: China