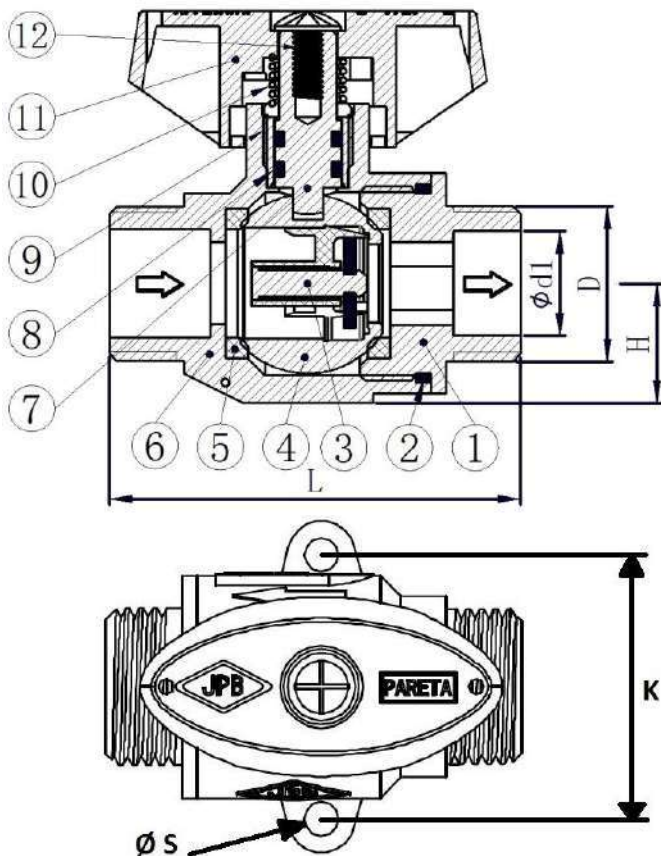


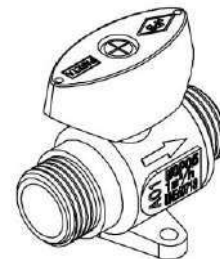
## GAS VALVE WITH FLOW LIMITER INSIDE

MALE-MALE INNER GAS BALL VALVE WITH LEG, LOCK & CHROME PLATED  
Produced in accordance with Spanish Standard UNE 60718



Nº	COMPONENT	MATERIAL
1	Bonnet	Brass
2	Bonnet O-Ring	NBR
3	Flow Limiter	Different material
4	Ball	Brass
5	Teflon Seat	P.T.F.E.
6	Body	Brass
7	Shaft	Brass
8	Shaft O-Rings	NBR
9	Shaft Nut	Brass
10	Spring	Stainless Steel
11	Handle	Aluminium alloy
12	Screw	Zinc plated steel

The surface treatment is always chrome-plated. In special cases it can be in natural brass colour.



CODE	DN	O.T.	D	Pressure	Q Nominal	Ød1	L	H	K	ØS	BOX	EAN
7820147100	10	≤4 Nxm	20/150	37mbar	1,0 m <sup>3</sup> /h	13,0±0,2	55±2,0	16±1	35±1	4,5±0,5	50 unid.	8435085522765
7820157100	10	≤4 Nxm	1/2"	21mbar	1,6 m <sup>3</sup> /h	14,5±0,2	55±2,0	16±1	35±1	4,5±0,5	50 unid.	8435085522758

The flow limiter inserted in this valve complies with the requirements of Standard UNE 60719. For correct operation, the valve must **always** be in the **fully OPEN position**. In intermediate positions, loses effectiveness.

Although the valve can work at a pressure of 0.5 Bar, the internal flow limiter must work without exception at the pressure indicated in the upper panel (20/150 at 37mbar and 1/2 " at 21mbar). Never exceed these pressures for each one.

The nominal flow rate of each flow limiter (Q Nominal) is expressed in m<sup>3</sup>/h for each type of gas. For the valve of 20/150 it is expressed in m<sup>3</sup>/h of Propane (GPL) and for the valve of 1/2 " it is expressed in m<sup>3</sup>/h of Natural Gas.

The tripping flows are within a range from 1,3 m<sup>3</sup>/h to 1,8 m<sup>3</sup>/h of propane (GPL) for the limiter of the 20/150 valve and from 2,0 m<sup>3</sup>/h to 2,9 m<sup>3</sup>/h of Natural Gas for the limiter of the 1/2 " valve. Respect always the flow direction marked with the arrow.

This valve can be installed in any existing installation, not requiring any type of modification on it, since the basic installation measures don't change with respect to any other internal valve of DN10 without flow limiter. See dimensions L, H, K y el ØS.

It is recommended to install this valve horizontally or vertically upwards.

## GAS VALVE WITH FLOW LIMITER INSIDE

### MALE-MALE INNER GAS BALL VALVE WITH LEG, LOCK & CHROME PLATED Produced in accordance with Spanish Standard UNE 60718

#### MATERIALS

- The brass material used is in accordance with Standards EN 12165, EN 12164 or EN 1982
- The rubber gaskets used and o-rings are in accordance with Standard EN 549
- The lubricants are in accordance with Standard EN 377

#### TECHNICAL FEATURES

- Valves suitable for gases of 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> family.
- Maximum operating temperature: +50° C.
- Minimum operating temperature : - 10° C.
- Operating torque: see column in upper table (O.T.).
- Maximum operating pressure : 0,5 Bar
- This valve has a flow direction which is indicated by an arrow on the body surface. Is mandatory to respect it.

#### HANDLE LOCK SYSTEM

- 1 Turn the handle clockwise and ensure that the valve is in CLOSED position
- 2 Unscrew the nut or screw that holds the handle until it is completely free of the shaft.
- 3 Remove the handle from the valve.
- 4 Turn the handle 180 degrees.
- 5 Assemble the handle on the valve again, ensuring that the turning stop of the handle is inserted into the locking groove of the body neck.
- 6 Assemble the nut or screw and screw it in until the end ensuring that the handle is locked.

For the models with automatic safety lock system, the locking device is in the handle. However, the blocking procedure is the same as detailed above.

#### PERIODIC TESTS

- Maintenance operations are not required. It is only recommended realising opening and closing movements of the valve, along its 90 degrees of turn, once a month at least as described in the OPERATION section.
- During the life of the valve, leaking tests required by the current regulations must be carried out.
- Periodically check that the valve has a proper operation, mainly the opening and closing movements along its 90 degrees of turn.
- Also periodically check the general appearing of the valve, ensuring that there are not any damaged part.

#### CAUTIONS

- Any deterioration or breakage of the valve or part of it requires complete replacement of the same one.
- Deterioration of any part of the valve means non-compliance of with the requirements of the Standards.
- Ensure that the valve is the suitable for the device or network to which we install and allows the flow required for the intended use.
- All the installation must be done in accordance with the existing code of good practice, local laws and approved national regulations.
- To check lacking of leaks in the installation, NEVER USE flames or any substance or product that is flammable or susceptible to fire or explosion.
- Do not use this valve for any other purpose than that one that the valve has been designed and manufactured, under any circumstance.

#### OPERATION

- To close the flow, turn the handle clockwise. Once closed, the handle must be perpendicular to the flow direction.
- To open the flow, turn the handle anticlockwise. Once opened, the handle must be parallel to the flow direction. For the models with automatic safety lock system, push on the handle to release the safety lock and turn it anticlockwise (push & turn).
- To ensure the correct valve operation, it is absolutely necessary that the valve does not remain NEVER in intermediate positions of opening or closing under any reason.
- It is recommend realising opening and closing movements of the valve, along its 90 degrees of turn, once a month at least.

#### INSTALLATION

- Check that pipes of the installation in which the valve is to be installed are free of gas or any flammable product or substance, as well as any other product which can damage the vital parts of the sealing elements. It is mandatory to clean installation's pipes prior to the valve installation, guaranteeing the absence of strange elements which could damage the closing and sealing system of the valve.
- Assemble the valve to network device or pipe using always suitable sealing elements and fittings for each type of valve. These fittings must carry out with regulations' and standards' specifications required by the current regulations. In case the fittings used require welding operations, DO NOT make such operations with the fitting connected to the valve, an excess of temperature could damage its vital parts of the sealing system. Also, be sure to remove all the fitting's parts that are rubber or liable to be damage in the welding process.
- Always assemble the valve to its connection ends designed for this purpose. DO NOT do it for the body, neck or handle.
- Check that connections are free of tensions, whether traction, compression, torque, bending or shearing.
- NEVER hit any part of the valve under any circumstances.
- DO NOT alter or modify any part of the valve or its components.
- Once the installation is finished, it is mandatory to carry out leaking tests required by the current regulations. These tests must always be prior to putting on service of the device or network.