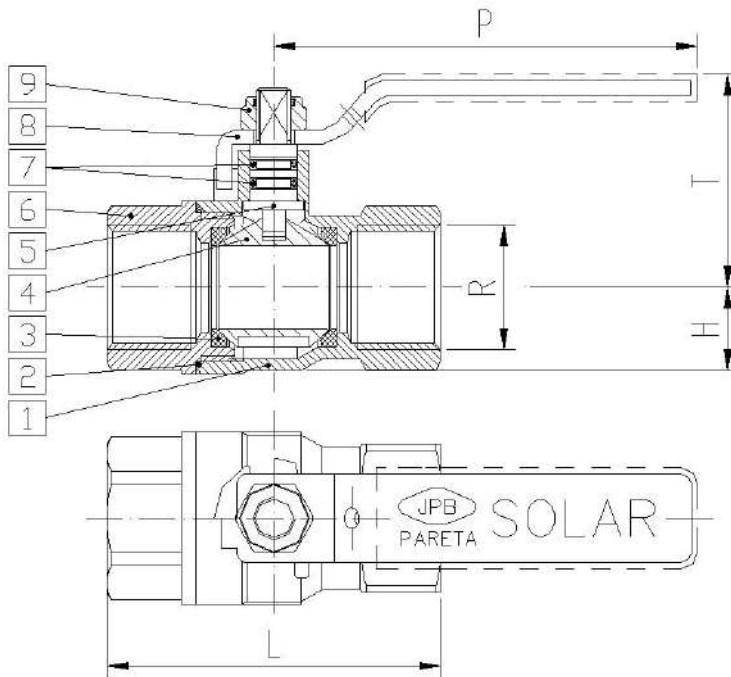


## SOLAR BALL VALVE UNTIL 180°C

Manufactured under parameters and technical requirements required by the Standard EN331



Nº	COMPONENTE	MATERIAL
1	Body	Brass
2	Bonnet o-ring	FPM
3	PTFE ball seat	P.T.F.E.+Graphite
4	Ball	Brass
5	Shaft	Brass
6	Bonnet	Brass
7	Shat o-rings	FPM
8	Lever handle	Dacromet Steel
9	Self-locking nut	Zinc plated Steel

CODE	DN	O.T.	R	L ± 2,0	H ± 1,0	T ± 1,0	P ± 1,0	CAJA	EAN
7842000200	10	≤4 Nm	3/8"	48,0	12,0	39,0	72	48	8435085522789
7842000300	15	≤7 Nm	1/2"	55,0	14,0	42,0	72	48	8435085520259
7842000400	20	≤7 Nm	3/4"	62,0	19,0	48,0	72	48	8435085520266
7842000500	25	≤7 Nm	1"	75,0	22,5	54,0	115	36	8435085520273
7842000600	32	≤14 Nm	1"1/4	80,0	28,5	60,0	115	20	8435085520280
7842000700	40	≤14 Nm	1"1/2	100,0	34,5	77,0	155	12	8435085520297
7842000800	50	≤14 Nm	2"	120,0	43,0	77,0	155	6	8435085520594

### MATERIALS

- Brass used complies the Standards UNE-EN12165, UNE-EN12164 and UNE-EN1982.
- O-rings comply with EN549 Standard.
- Lubricants used comply with EN377 Standard.

### TECHNICAL FEATURES

- Valves suitable for solar energy installations.
- **They can work in glycol solutions.**
- **Maximum working temperature: +180° C.**
- Minimum working temperature: - 40° C.
- Operating Torque: see above table, column O.T.
- Working pressure: from 1/2" to 1"=30bar / from 1"1/4 to 2"=25bar)
- These valves do not have a determinate flow direction, so their position is indistinct.

### OPERATION

- To close the flow, turn the handle clockwise. It must be perpendicular to the flow direction.
- To open the flow, turn the handle anticlockwise. It must be parallel to flow direction.
- To ensure the correct operation of the valve, it is absolutely necessary that the valve does not remain in intermediate positions of opening or closing under any circumstance.
- It is recommend realising opening and closing movements of the valve, once a month at least.

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### HANDLE LOCKING SYSTEM

- 1 Turn the handle in clockwise and ensure that the valve is in the CLOSED position.
- 2 Unscrew nut or screw that fix the handle until it is fully release from the shaft.
- 3 Remove valve's handle.
- 4 Turn handle 180 degrees.
- 5 Assemble valve's handle again, ensure that stopper is in the locking socket that has the neck of the body valve.
- 6 Assemble nut or screw again and screw it until the end, in this way handle is locked.

### PERIODIC TESTS

- Maintenance operations are not required. It is only recommended realising opening and closing movements of the valve, 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 of the valves.
- Also periodically check the general appearing of the valve, ensuring that there are not damaged parts of the valve.

### CAUTION

- 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 regulations.
- 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 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 purpose other than that one that the valve has been designed and manufactured under any circumstance.

### 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 pipings 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 tension, compression, torsion, bending or shearing.
- NEVER hit any part of the valve under any circumstances.
- DO NOT alter or modify any part of the valve nor its components.
- Once the installation is completed, 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.