

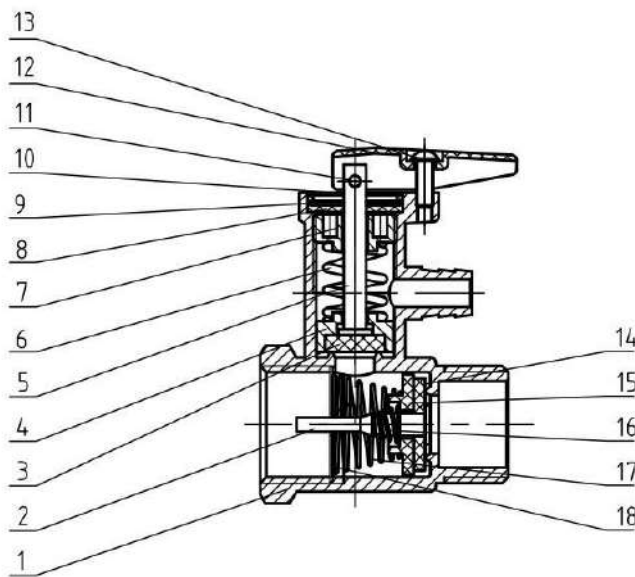
## HEATER SAFETY VALVE (for 7 and 10 Bar)

### OBJECTIVE

The objective of this product is to guarantee the correct operation of the heater in case overpressure, displacing to outside the necessary quantity of fluid to balance the internal pressure of the equipment. It also has a check valve internally.

### APPLICATION

The application for which it has been designed is as an equipment safety valve, installed directly to the heater. For any other application, please consult to our technical department.



Nº	Description	Material
1	Body	Brass
2	Main flow shaft	Brass
3	Upper shaft gasket	Silicon
4	Upper shaft nut	Brass
5	Upper shaft	Brass
6	Spring	SS 201
7	Pressure control nut	Brass
8	Top gasket	NBR
9	Intermediate disc	SS 304L
10	Upper disc	SS 304L
11	Handle shaft	Brass
12	Handle	ABS
13	Handle security screw	Q235
14	Main shaft gasket	NBR
15	Spring fixer	POM
16	Spring anterior part	SS 304L
17	Spring posterior part	SS 304L
18	Spring support disc	SS 304L

CODE	PRESSURE	R1	R2	BOX	CARTON	EAN
5401207000	7 Bar	1/2" M	1/2" F	1 unit	50 units	8435085520303
5401210000	10 Bar	1/2" M	1/2" F	1 unit	50 units	8435085520310
5403407000	7 Bar	3/4" M	3/4" F	1 unit	50 units	8435085520327
5403410000	10 Bar	3/4" M	3/4" F	1 unit	50 units	8435085520334



### General specifications:

- Working pressure of valve: 3-12 Bar
- Relief pressure: There is the option of 2 types of relief or discharge pressures, at 7 Bar or 10 Bar. These relief pressures are marked on the valve body visibly and unequivocally. The tolerance range in the relief pressure is determined around  $\pm 0.5\text{Bar}$ .
- Working medium: Mainly water for domestic use and for thermos or heating heaters.
- Working temperature: 0-110°C.
- Guarantees the proper functioning of the thermos or water heater due to its double function; relief valve and check valve.
- Minimum inlet pressure: 1 Bar.
- Maximum pressure of check valve system: 3 Bar
- Materials made of stainless steel provide better valve performance, as well as long service life.
- Special design of the handle with safety and locking screw, to avoid incorrect or improper use of the relief system.
- Connection threads: Male-Female threads in accordance with Standard ISO228 (BS2779).
- Body surface: Nickel plating for corrosion protection, also giving it a pleasant visual appearance.
- Manufacturing lot: In code format marked directly on the valve body surface..
- Flow direction: It has an arrow on the body surface that indicates the direction of the flow for its correct installation.

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### VALVE OPERATION

- To open the flow or the evacuation system, act on the handle by previously removing the screw (13).
- To preserve the proper functioning of the valve, it is absolutely necessary that it does not remain in intermediate open or close positions under any circumstances.
- It is recommended to proceed with the opening and closing movements of the valve evacuation system, at least once a month.

### INSTALLATION

- For correct operation, water or fluids must be free of lime and solid particles that may obstruct or damage the leak-tight parts of the valve.
- It is mandatory to clean installation's pipes prior to the valve connection, guaranteeing inside the absence of strange elements which could damage the cutting off, leak-tightness and displacement system of the valve.
- Always respect the flow direction marked with an arrow on the valve body surface to ensure proper operation.
- 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 required by the directives and current legislation.
- 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.

### PERIODIC TESTS

- Maintenance operations are not required. It is only recommended realising opening and closing movements of the valve or its displacement system, 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 or its displacement system.
- 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 and performances required for the intended use.
- All the installation must be done in accordance with the existing code of good practice, local laws, regulations, directives and approved national legislations.
- 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.