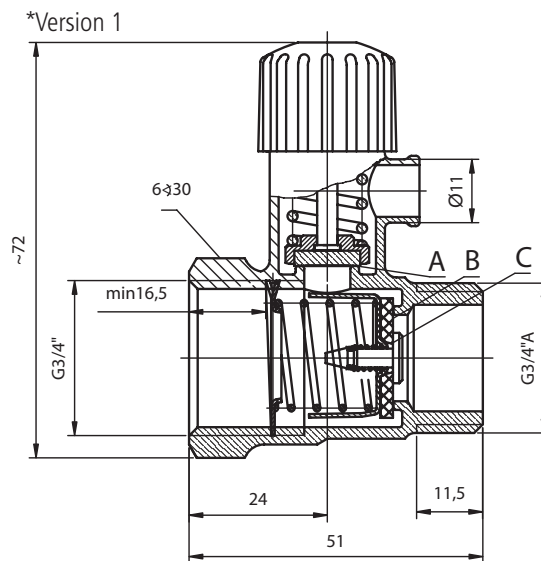
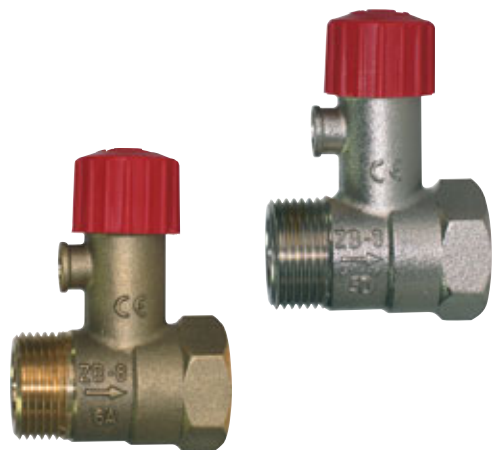


SAFETY VALVE

Code No: see table

ZB-8 type 0377

ZB-8



APPLICATION

The ZB-8 safety valves are designed for protection against too high water pressure on electrical water heaters. Available are valves for 0,6 MPa and 0,7 MPa nominal pressure.

CONSTRUCTION

The valve body and all other metallic parts are made of brass. The sealing gaskets are of rubber adequate to its working conditions. All springs are of stainless steel.

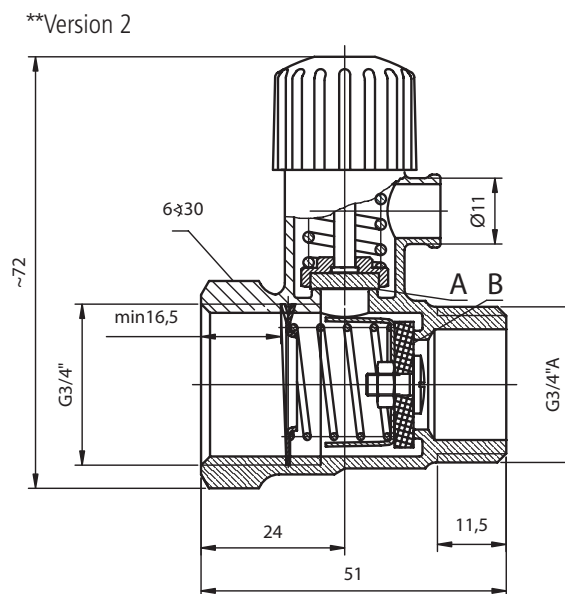
These valves can realise three primary functions:

A. The safety valve „A” opens the passage „1” for the outflow of water when the pressure in the tank increase over its permissible limit.

B. The check valve „B” for filling the heater with water. It also prevents the outflow of water from the tank back into the supply line in case of pressure failure.

C. The return valve „C” opens the outflow of water from the tank into the supply line in case of an excessive pressure rise in the tank exceeding supply line pressure. It makes possible to decrease the pressure in the tank without uptake of hot water from it.

The proper operating of the safety valve should be verified periodically (at least once a month) by turning the knob clockwise or counter-clockwise to its up position - water must flow through the outlet „1” and then turning the knob and press to its down position (stop of flow).



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SAFETY VALVE

ZB-8 type 0377

Code No: see table

MOUNTING

The valve shall be installed in the water supply line of the heater. The direction of flow should be in accordance with the arrow marked on the valve body. The water supply line should be stable to 90°C temperature at least 5 m before heater because hot water may flow back through the check valve.

The overflow outlet „1” should be directed downward. It is possible to connect the flexible pipe to overflow outlet for discharge of flowing water to funnel. Inside diameter of pipe should be 11 mm, maximum length - 1 m. The pipe must be stable to 80 °C temperature.

Max. Length of engagement of pipe into the valve is 9 mm. It is recommended to use the PTFE (teflon) band for sealing. The supply line water pressure cannot exceed the nominal pressure to avoid the continuous overflow from the heater.

TECHNICAL DATA

Code No	Valve body		Nominal Water Pressure	Opening Pressure of the Safety valve „A”	Minimal Inside Diameter of Port „A”
	Inlet Thread	Surface			
0377- 0105*	external	blasted	0,6	0,67±0,03	8
0377- 1105*	external	blasted and nickel coated			
0377- 0135**	external	blasted			
0377- 1135**	external	blasted and nickel coated			
0377- 0005*	external	blasted	0,7	0,75±0,05	8
0377- 1005*	external	blasted and nickel coated			

* version 1 ** version 2

Permissible coefficient of discharge of port „A” at pressure rise exceeding 10% $\alpha_c = 0,012$

Opening pressure differential between the inlet and outlet of the check valve „B” (fig.) $0,03 \pm 0,02$ MPa

Opening pressure differential of the return valve „C” (fig.) $0,07 \pm 0,02$ MPa

Weight 0,15 kg

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