



AFRISO

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Safety valve with non-return valve AF4, AF8

NOTE!

The product may only be used if you have fully read and understood these operating instructions. The manual is also available on the AFRISO websites in the Internet.

WARNING!



Danger of scalding by hot system water.

During the installation, commissioning and maintenance of safety valves, every possible measure must be taken to prevent scalding from hot water.

APPLICATION

The AF4 and AF8 safety valves are designed as components for use in electric domestic hot water heaters with a maximum water temperature of 95°C and a rated pressure of 6 bar.

PREDICTABLE INCORRECT APPLICATION

The product must not be used in the following cases:

- under conditions where the pressure and temperature of the medium exceed the maximum permissible limits,
- with the following liquids and gases: a mixture of water and glycol with a glycol concentration exceeding 50 per cent, steam, oil, petrol, and other media that may damage the valve components or disrupt its operation.

VALVE CONSTRUCTION

The valve consists of:

- Safety valve** - opens to allow water to flow out when the pressure in the water heater rises above the valve's rated pressure.
- Non-return valve** - limits the flow of water from the water heater into the supply system in the event of a loss of pressure in the mains. The valve opens fully when the water pressure in the supply system is at least 0.2 bar higher than the pressure in the water heater.
- Relief valve** - opens the water outlet from the water heater to the system supply when the pressure in the water heater exceeds the system supply pressure by 0.9 ± 0.4 bar. This reduces the pressure in the water heater, which rises as the water temperature increases when no water is being drawn.

The valve is not designed for draining water from the water heater! Any dirt that escapes may damage the valve, which could in turn pose a risk to the environment and the user.

DANE TECHNICZNE

Parameter	Value / material
Safety valve nominal pressure	6.7 ±0.3 bar
Operating temperature	max. 95°C
Housing material	CW617N brass
Connections	AF4: G½" x Rp½" AF8: G¾" x Rp¾"
Nominal size	AF4: DN15 AF8: DN20
The smallest diameter of the safety valve's flow passage (d)	AF4: 6 mm AF8: 8 mm
Power output of the water heater	AF4: max. 4 kW AF8: max. 10 kW

MOUNTING

The valve must be installed on the water system supplying the water heater, in accordance with the flow direction arrow on the housing. The length of the connector on the valve's female thread side must not exceed 10 mm, to prevent possible damage to the valve. Use a proper sealing material intended for use in DHW systems. The water supply pipework, located at least 5 m from the valve, must be able to withstand temperatures of up to +95°C, as hot water may leak from the DHW heater. Before installing the valve, flush the system to remove any dirt that could cause damage to the valve.

Fit a flexible hose to the outlet of the safety valve to allow water to be safely drained when the safety valve opens. The hose must be able to withstand temperatures of up to +95°C, have an internal diameter of 7 mm (AF4) or 9 mm (AF8), and a maximum length of 1.2 m. The hose must be sloped with a constant gradient towards the outlet. The hose must not be constricted or kinked, and its end must remain visible (to check that the valve is operating correctly).

OPERATION

Check the valve's operation regularly (at least once a year) or whenever the system is restarted after a prolonged period of inactivity. This involves moving the lever so as to cause water to flow out of the safety valve. The lever should then be returned to its original position to close the valve. If no water is discharged when the lever is moved, this indicates that the valve is damaged.

In this case, the valve should be replaced with a new one with the same specifications.

WARNING!



Be careful when operating the lever, as hot water under pressure may be discharged from the valve outlet.

The water pressure in the supply system cannot exceed 6 bar. Higher pressure may cause a constant discharge of water by the valve. That does not mean the valve is damaged. In such case, we recommend installing a pressure reductor on the supply system.

APPROVALS AND CERTIFICATES

The AF4 and AF8 valves have been marked with the "B" construction mark, in accordance with national regulations. They hold a hygiene certificate issued by NIZP-PZH.

DECOMMISSIONING, DISPOSAL

1. Dismount the product.
2. Dispose of the product according to local directives and guidelines.

The product is built from recyclable materials. If you have any questions or problems with disposal, please contact the appropriate distributor or manufacturer's point.

WARRANTY

Product guarantee in accordance with the general conditions of sale and delivery.

CUSTOMER SATISFACTION

For AFRISO customer satisfaction is paramount. If you have any questions, suggestions or product problems, please contact us.