



ANTIFREEZE VALVES FOR HEAT PUMPS

476MF Antifreeze valve for heat pumps

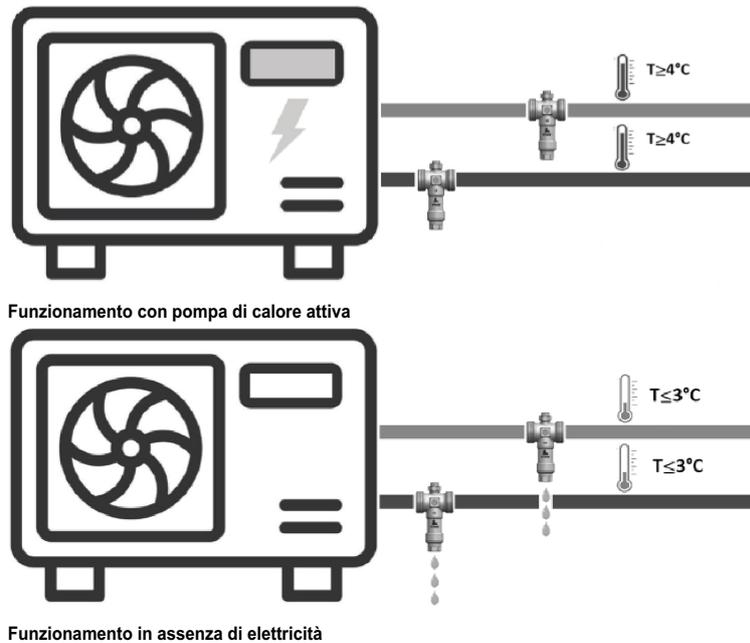
INSTRUCTIONS FOR INSTALLATION, COMMISSIONING AND MAINTENANCE

WARNING:

The following instructions must be read and understood before installing and maintaining the product. Leave this manual as a reference guide for the user. Dispose of the product in compliance with current legislation.

FUNCTION:

The antifreeze valve allows drainage of the medium in the circuit when the circuit temperature reaches an average value of 3 °C.



OPERATING FEATURES:

Allowed fluids: Water

Maximum working pressure: 10 bar

Working temperature range: $0^{\circ}\text{C} \div +90^{\circ}\text{C}$

Ambient temperature range: $-30^{\circ}\text{C} \div +65^{\circ}\text{C}$

Fluid temperature (Opening): $+3^{\circ}\text{C}$

Fluid temperature (Closure): $+4^{\circ}\text{C}$

Accuracy: $\pm 1^{\circ}\text{C}$

MATERIALS:

Body valve: Brass CW617N

Internal components: Brass CW617N

Springs: Steel AISI 302

Seals: EPDM Peroxide

Vacuum breaker valve: POM

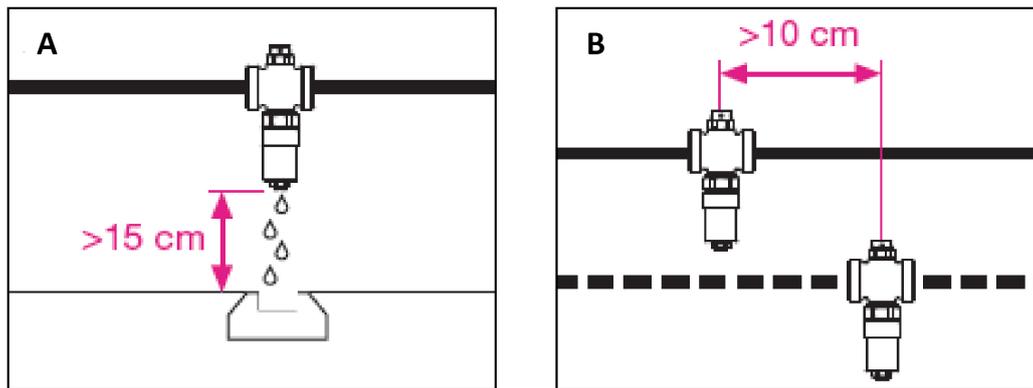
Wax thermostatic element

INSTALLATION:

The device must only be installed vertically to allow water to flow out properly and free from obstructions. The antifreeze valves must be installed outside, in the coldest part of the system that is at risk of freezing. We recommend installing the antifreeze valves on both pipes (flow and return). They must also not be placed close to heat sources which could interfere with proper function. Leave at least 15 cm clearance from the ground so the block of ice that may form below will not prevent water from coming out of the valve (fig. A). Keep a distance of at least 10 cm between the antifreeze valves (fig. B).



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In accordance with applicable regulations, the safety relief valve drain must be channelled using suitable pipes. Do not make any trap connections. If the shape of the connection pipe has the potential to create a trap effect (fig. C), part of the pipe will not be drained and protection against freezing can no longer be guaranteed.

