



# DIAPHRAGM SAFETY RELIEF VALVES

## 368 Diaphragm safety relief valve, female/female thread

### INSTRUCTIONS ON INSTALLATION, USE AND MAINTENANCE

#### DIAPHRAGM SAFETY RELIEF VALVES



Art. 368



Art. 369



Art. 368M



Art. 369M

The safety valves are manufactured in accordance with Directive 2014/68/EU (PED) Group IV.

#### Function:

Itap Spa safety valves are to be installed on heat generators, on the storage tanks of plumbing systems and more generally on water systems with pressurised fluids. Its function is to discharge part of the fluid used when the set pressure is reached into the atmosphere and to prevent the pressure inside the system from increasing beyond the permitted limits.

Safety valves have an overpressure of 20%. The designer/installer is obliged to take this into consideration during design/installation for correct dimensioning.

#### TECHNICAL FEATURES

##### Materials:

Body: Brass

Cylindrical washer: EPDM

Washer: Fibre

Plate: POM

Stem: PP

Spring: Steel

Top lid: PA

Spring stop: POM

Handle: ABS

Calibration cap: ABS

##### Features:

Nominal pressure: PN 10

Temperature range: 5–115°C

Opening overpressure: 20%

Closure deviation: 20%

Operating fluid: water, air

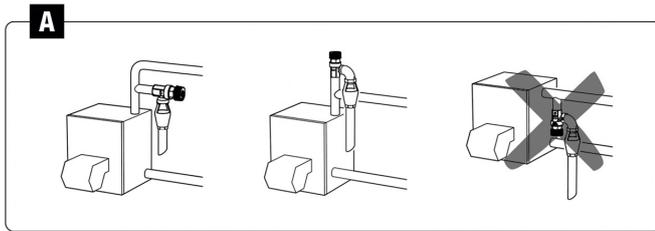
Maximum glycol percentage: 50%

#### Installation and Start-up:

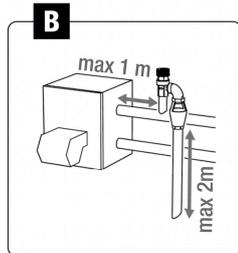
Installation and removal must always be carried out with the system cold and not under pressure. The valve can be installed in any position except upside down and in the pipe section towards the boiler it must not be intercepted in any way (A).



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The maximum distance from the boiler must be 1 m, respecting the direction of flow indicated by the arrow on the body without any reduction, and with a diameter no smaller than that of the inlet section of the valve itself. The outlet of the safety valve must be clearly visible and conveyed in a pipe with a diameter not less than that of the outlet section of the valve itself (B).



The valve must be positioned in a place which is not exposed to the risk of freezing and/or condensation.

## Maintenance:

The valve must be checked annually by manually actuating the handle to cause a discharge of fluid to clean the seal seat. When making hydraulic connections, take care not to mechanically overstress the threads of the valve body. Water temperatures above 50 °C can cause severe burns.

During installation, commissioning and maintenance of safety valves, take the necessary precautions so that these temperatures do not endanger persons.

If the valve shows continuous fluid leakage or dripping, it must be checked by qualified technical personnel.

## Safety:

Before installing a safety valve, it must be correctly sized by a specialised technician in accordance with the regulations in force for the specific application.

It is forbidden to use it for anything other than its intended purpose.

Installation and maintenance must be carried out by qualified technical personnel in accordance with the regulations in force.

Ensure that the connection fittings are hydraulically tight. Water temperatures above 50°C can cause severe burns.

**DISPOSE OF IN ACCORDANCE WITH CURRENT REGULATIONS**

This operating instruction has been drawn up in accordance with Article 3.4 Annex I of the 'PED' Directive 2014/68/EU, according to which, when placed on the market, pressure equipment must be supplied with a user leaflet containing all relevant safety information.

Declaration of conformity:

