

Description of appliance

The valve is a safety accessory according to the definition of Directive 2014/68/EU of the type "direct pressure limitation" and has been built in compliance with the standards EN 12828, EN ISO 4126-1 and Regulation TRD 721.

The gasket sealing the cut-off valve is built with materials suitable to guarantee resistance to wear and without sticking to the housing, even when operating for long periods of time.

The immovable plate prevents unintentional tampering with valve calibration and bears the calibration value, the product code, DN, TS, PS, kW, discharge pressure, usable fluids group, batch identification, progressive construction number, year of manufacture.

Description of operation

In the presence of overpressure no greater than 10% the calibration pressure value, the valve opens a discharge orifice.

This orifice is closed by a spring when the pressure value drops to a value within a maximum of 20% Pt.

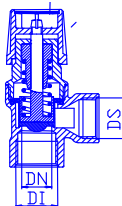
Triggering of the safety valve is guaranteed even if the diaphragm breaks.

Turning the hand wheel anticlockwise opens and closes the discharge orifice.

The valve is supplied with a threaded part after the discharge orifice where a unit (not supplied) which visually controls that the valve has triggered is mounted.

Operating conditions:

Max Admissible pressure	Ps 12 bar
Calibration pressures	Pt (from table)
Backpressure	atmospheric
Overpressure	< 10% Pt
Closing pressure	< 20% Pt
Fluids used	water - steam (group 2)
Minimum/maximum admissible temperature	TS +5 / +120 °C
Coupling diameter	DI
Orifice diameter	DN
Discharge diameter	DS



Calibration bar	DN 15	DN 20	DN 25	DN 32
	kW	kW	kW	kW
2.50	50	100	200	350
3.00	50	100	200	350

Warnings for installation and use:

- The safety valve must be mounted on the system paying attention to the direction of flow specifically indicated on the body.
- The safety valve must be mounted on the top of the storage tank making sure it completely emerges in it.
- The safety valve can be mounted both horizontally and vertically, making sure the discharge does not face upwards.
- The inside diameters of the fluid supply and discharge pipes of the safety valve must be no less than their DN.
- The pipes or accessories used to transport discharged fluids must not create bending moments which jeopardise triggering of the valve.
- The equipment, pipes or accessories used to transport fluids must be free at the threadings from residue of prior preparations or processes especially when the water contains inhibitors capable of developing amines.
- Intentional tampering with the calibration value makes it impossible for the valve to perform the safety function for which it was designed.
- The safety unit should be opened manually once a year to check its efficiency.
- In the event of fluid leakage, pay great attention to interventions on the valve, taking the necessary precautionary measures, especially in the presence of very high operating temperatures.
- When the cut-off valve has difficulty restoring its sealing features, after discharge interventions, perform some opening and closing manoeuvres by manually turning the hand wheel of the valve anticlockwise, thus cleaning the concerned parts.
- If the RBM safety valve is not installed and kept in a suitable place, it does not lose its functional and performance features.
- The RBM safety valve must be installed by qualified technicians.
- The valve must be inspected periodically starting from the commissioning date, at a frequency established by legislation in force.
- The operating instructions must be complied with mandatorily.

RBM S.p.A. is not liable for damage caused by commissioning and maintenance errors, failure to comply with these instructions and improper use of the product.



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