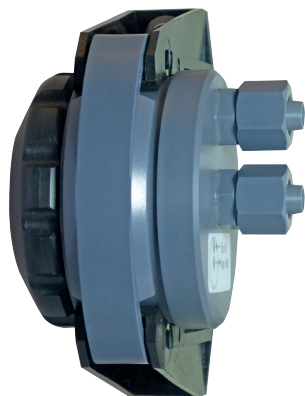


# Protection against positive pressure

## Safety blow-off valve and Safety blow-off valve PLUS



### Protection against positive pressure

Modern chlorine gas dosing systems used in water treatment processes work with the vacuum procedure in accordance with DIN 19606. As the central safety component, the vacuum regulator is usually located directly on the chlorine tank valve. It ensures an operating pressure in all subsequent lines which is lower than the atmospheric pressure. This means that chlorine cannot escape, even given a leak, as the negative pressure only extracts air.

Every technical system can experience malfunctions, e.g. through soiling of the device. In such malfunctions, positive pressure can build up in the vacuum system. As such, DIN 19606 prescribes a safety blow-off valve.

### Safety blowoff valve

Even given a low positive pressure, the safety blow-off valve opens and enables the chlorine gas to flow away to a targeted safe location. In the majority of cases, an activated carbon cartridge is connected, which absorbs non-hazardous quantities. With real malfunctions, the chlorine flows to the gas warning device sensor and triggers an alarm.

### Functions

- Protection against positive pressure in the vacuum system
- Opening pressure of the blow-off valve approx. 30 mbar
- Material in contact with the media PVC, FPM
- Delivery incl. wall bracket

### Safety blow-off valve PLUS

This valve serves a double function. In addition to the function of the safety blow-off valve, it is fitted with an electrical contact. It switches before the blow-off valve is opened and warns of a future alarm. This means that the maintenance service can remedy the cause of the malfunction before an alarm situation develops.

### Functions

- Protection against positive pressure in the vacuum system
- Electrical signal before a gas alarm is triggered
- Opening pressure of the blow-off valve approx. 30 mbar
- Opening pressure of the contactor approx. 15 mbar
- Material in contact with the media PVC, PVDF, FPM
- Delivery incl. wall bracket

## Technical data

### Safety blowoff valve

Opening pressure of the blow-off valve	mbar	+30 approx.
System pressure at flow off volume 1 kg/h chlorine	mbar	max. +40
Opening pressure of the contactor	mbar	-
Load capacity of the contact		-
Switch direction of the contact		-
Permitted operating pressure	bar	-1 – 0
Nominal width		DN 6
Material in contact with the media		PVC, FPM
Weight with wall bracket	g	400 approx.

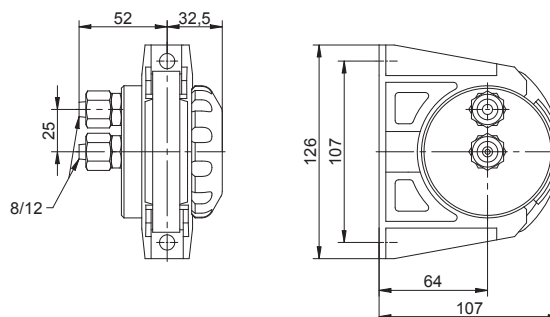
### Safety blow-off valve PLUS

Opening pressure of the blow-off valve	mbar	+30 approx.
System pressure at flow off volume 1 kg/h chlorine	mbar	max. +40
Opening pressure of the contactor	mbar	+15 approx.
Load capacity of the contact		48 V / 0.5 A / 10 W
Switch direction of the contact		NC
Permitted operating pressure	bar	-1 – 0
Nominal width		DN 6
Material in contact with the media		PVC, PVDF, FPM
Weight with wall bracket	g	approx. 1,300

## Dimensions

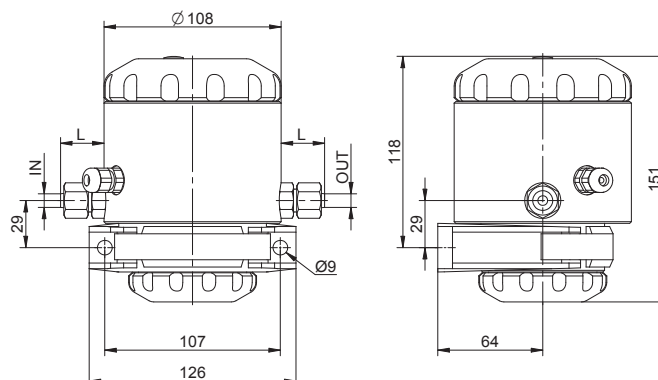
### Safety blowoff valve

All dimensions in mm



### Safety blow-off valve PLUS

All dimensions in mm



Connection (IN / OUT)	Dimension L
Hose connection 8/12 mm	26.5
Hose connection 12/16 mm	36.5
PVC threaded connection DN12 / Ø 16 mm	47.5

## Optional accessories

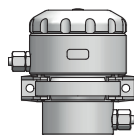


### Activated carbon cartridge

with bracket and 3 m hose for installation in the blow-off line

Retains small amounts of chlorine and prevents chlorine gas alarm as a result of short-term system-related leakage.

Connection for PE hose Ø8/12



### Safety shutoff valve

Increases the safety by closing the vacuum line completely in the case of ejector idle time