

□ Field of application

This vacuum valve is used to prevent over- and low pressures in tanks and vessels in plants of the food and drink industry, pharmaceutical and chemical industries as well as in biotechnology.



ATTENTION

To avoid danger and damage, the fitting must be used in accordance with the safety instructions and technical data contained in the operating instructions.

□ Safety Instructions



DANGER

- With pressure greater than the set pressure the gaseous or liquid media will radially escape into the atmosphere via outlet drillings "A" and can cause injuries.
- According to the installation position, safety devices and draining devices are to be attached.

□ Function -overpressure-

The function of the valve is to prevent inadmissible overpressures of fluid media in tanks, containers and plant sections. Generally, the set pressure is greater than the operating pressure. The valve opens against a spring force if the operating pressure increases to the set pressure. With the pressure increase the flow rate is constantly conveyed. (see Diagram Fig.1).

□ Blow-off performance chart

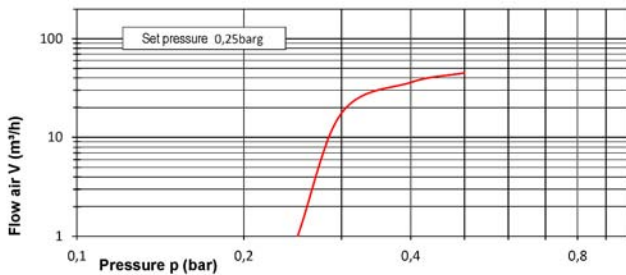


Fig. 1

□ Function -low pressure-

The function of the valve is to prevent inadmissible low pressure shortfalls in tanks and containers. The valve opens against spring tension with an absolute pressure from 5mbar. The flow capacities referred to the relevant pressure are shown in the capacity diagram. (see Diagram Fig.2)

□ Aerate - performance chart

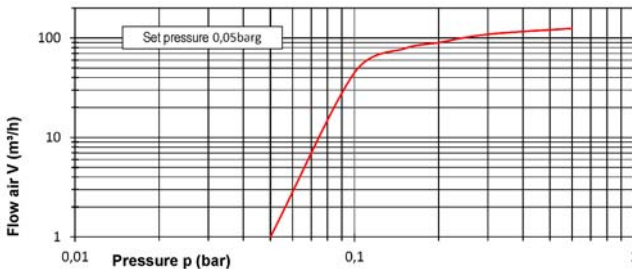


Fig. 2



□ Cleaning

The cleaning of the valve is only possible in the dismantled state.

□ Installation instructions

In general the valve must be installed vertically at the connection "A" (see fig. 3, page 2).

□ Technical data

Model:	Pressure equalizer valve for over- and underpressure spring force closed for gaseous media	
Connection:	G1¼"	
Temperature:	-10°C / +130° C (steam - gas)	
Material:	in product contact	not in product contact
Stainless steel:	1.4301 / ASI304	1.4301 / ASI304
Surfaces:	RA 0,8µm	RA 1,5-2,5µm E-polished
Seals:	FKM	-

□ Identification

Manufacturer:	Logo
Connection:	xxxx
Material - in prod. contact / seal:	xxxx / xxxx
Over pressure:	+ x,xx bar Ü
Underpressure:	- x,xx bar U
Article number:	xxxx xxx xxx-xxx
Order number:	xxxxxxxx

☐ Maintenance

The maintenance intervals depend on the operating conditions "temperature, temperature-intervals, medium, cleaning medium, pressure and opening frequency". We recommend replacing the seals every 3 years. The user, however should establish appropriate maintenance intervals according to the condition of the seals.



NOTE

By maintenance is not made by the manufacturer, the user will be responsible for subsequent damages due to improper handling. If required the function should be checked and documented by authorized institute.

☐ Disassembly and assembly

Disassembly

- Remove the lead seal (8).
- Unscrew the screw for stroke limitation (14).
- Unscrew the cover (5) from the housing (1).
- Dismantle the plate (4).
- ⚠ Attention: Spring tension.
- Remove the pressure spring (13) and all mounted parts from the housing (1).
- Unscrew the hexagon nut (9) and remove the plate (2).
- Dimantle the O-Ring (10), (12).

Assembly

- Thoroughly clean and slightly lubricate mounting areas and running surfaces.
- Assemble in reverse order.

Performance test

- Test proper performance in the operating state according to the specified performance data.

☐ Spare parts list

Item.	Designation	Material
1	Housing Art.-Nr.: 6000 042 001-021	1.4301 AISI 304
2	Plate overpressure Art.-Nr.: 6000 042 002-021	1.4301 AISI 304
3	Valve plate Art.-Nr.: 6000 042 003-021	1.4301 AISI 304
4	Plate Art.-Nr.: 6000 042 004-021	1.4301 AISI 304
5	Cover Art.-Nr.: 6000 042 005-021	1.4301 AISI 304
6	Wire cloth Art.-Nr.: 6000 042 009-020	1.4301 AISI 304
7	Locking wire Art.-Nr.: 8165 001 000-000	-----
8	Lead seal Art.-Nr.: 8166 000 010-060	KV
9	Hexagon nut DIN 985 Art.-Nr.: 8115 006 000-020	1.4301 AISI 304
10	O-Ring Ø25 x 3.0 Art.-Nr.: 2304 025 030-051	FKM
11	Pressure spring VD 090 E Art.-Nr.: 8150 090 030-031	1.4310 AISI 301
12	O-Ring Ø17 x 3.0 Art.-Nr.: 2304 017 030-051	FKM
13	Pressure spring VD 207 K01 Art.-Nr.: 8150 207 071-031	1.4310 AISI 301
14	Screw for stroke limitation Art.-Nr.: 8085 005 012-021	1.4301 AISI 304

☐ Drawing

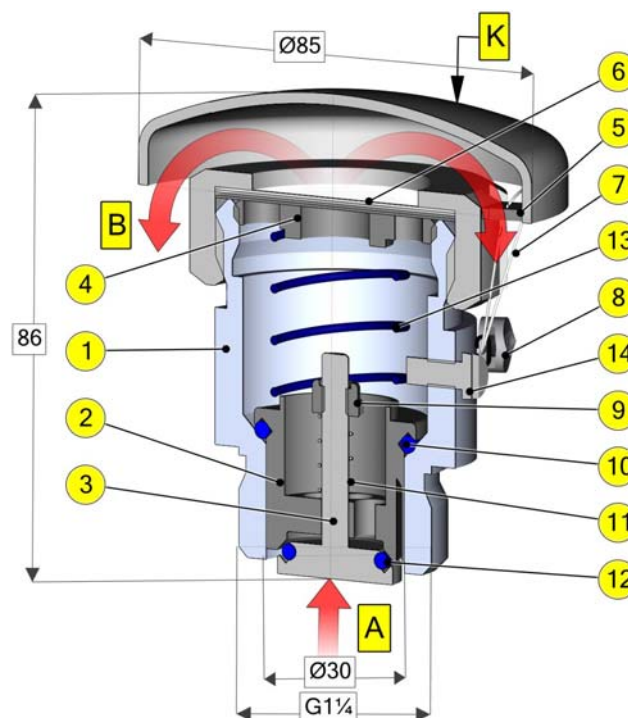


Fig. 3