

SANITARY TANK BLANKETING REGULATORS

BKV

(Low pressure vent valve)

ADCAPure

DESCRIPTION

Tank blanketing valves are commonly used in tank storage systems to prevent and protect against explosions (avoiding flammable liquids being vented from vessel), to control product contamination against external air that may fill the vapour space, to reduce evaporation losses (consequently product losses), to reduce internal corrosion (caused by air and moisture) and to prevent vacuum condition.

The blanketing process consist in covering the stored medium , usually a liquid, with a gas (normally N2).

MAIN FEATURES

Compact design.

Completely machined from barstock material, no castings or forgings used on the standard version.

No rising stem

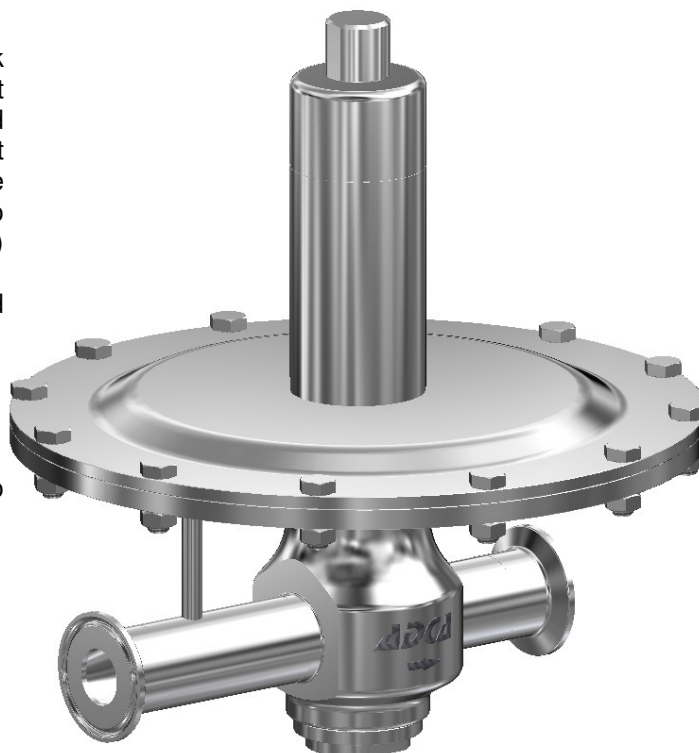
STANDARD SURFACE FINISH

Internal wetted parts: 0,5 microns Ra

External :

Body and cover– Fine machined

(mechanical or electro polished as option)



OPTIONS:

- Leakage line connection 1/8" (captured vent).
- Gauge connection on body
- Dome loaded (for higher pressure control)
- Angle connection design.
- Blanketing with vacuum

USE: Compressed air, nitrogen and other gases compatible with the construction.

AVAILABLE MODELS: BKV – Low pressure venting valve

SIZES: DN 1" – DN25

OUTLET SPRING RANGES: 5 to 500 mbar (4000mbar with dome load)

CONNECTIONS: Clamp ends or others on request
INSTALLATION: Vertical installation recommended as close to process as possible in order to prevent long pipe sections and flow restrictions.

ORDER REQUIREMENTS:

- Type of fluid
- Maximum operating temperature
- Opening pressure
- Capacity (maximum and minimum).

LIMITING CONDITIONS	
Valve model	BKR
Body design conditions	PN 16
Max.operating pressure	6 bar
Min.upstream pressure	5 mbar
Max.upstream pressure	500 mbar
Max.design temperature *	130 °C

*Other on request.

CE MARKING (PED - European Directive 97/23/EC)	
PN 16	Category
DN 1" - 25	SEP - art. 3, paragraph3

DIMENSIONS (mm)

SIZE DN	A	B	C	D	WGT. Kgs
1" -25	210	47	240	265	9,5

Dimensions based on ASME BPE clamped ends

Different dimensions and standards on request.

Consult factory for certified dimensions

Dimensions subject to change without notice

CAPACITIES in Nm³/h (air)

Set pressure mbar	10	20	40	100
25% Overpressure	5,3	11,8	18	31

Connection examples

Clamp	Round thread	Flange

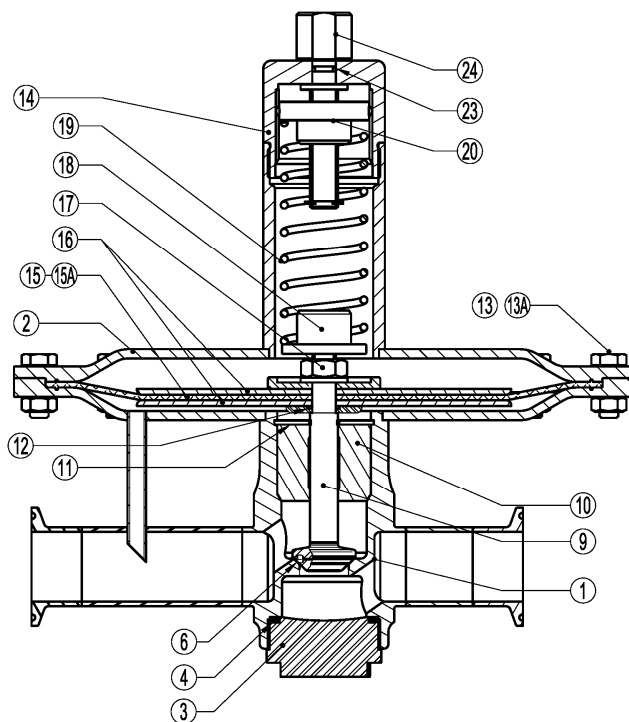
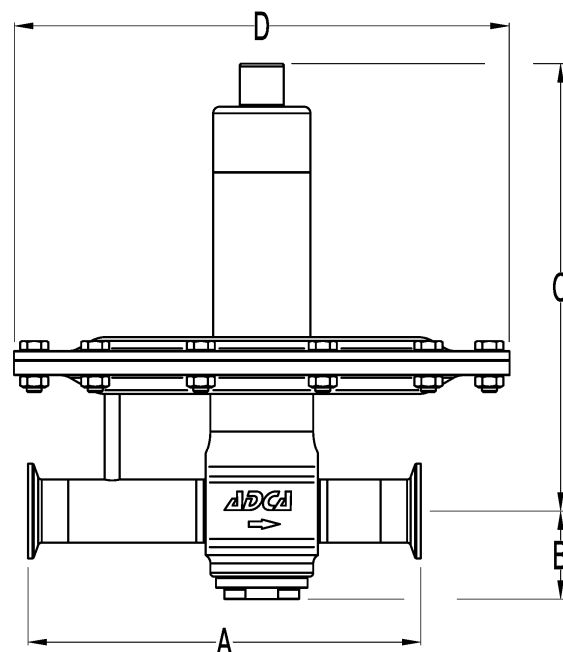
MATERIALS

POS.	DESIGNATION	MATERIAL
1	Valve body	AISI316L / 1.4404
2	Actuator	AISI316L / 1.4404
3	Seat cover	AISI316L / 1.4404
4	* O-ring	EPDM
5	*Piston	AISI316L / 1.4404
6	* Valve head	EPDM
7	* O-ring	EPDM
8	*Valve spring	AISI302 / 1.4300 (Polished)
9	Stem	AISI316L / 1.4404
10	Stem guide	PTFE
11	Retaining ring	St.steel A2
12	* O-ring	EPDM
13	Bolts	St.steel A2-70
13A	Nuts	St.steel A2-70
14	Spring cover	AISI316L / 1.4404
15	* Lower diaphragm	PTFE
15A	* Upper diaphragm	VITON
16	Diaphragm plate	AISI316L / 1.4404
17	Nut	St.steel A2-70
18	Lower spring guide	AISI316L / 1.4404
19	* Regulating spring	AISI302 / 1.4300
20	Top spring plate	AISI316L / 1.4404
21	Spring cover	AISI316L / 1.4404
23	* O-ring	EPDM
24	Regulating nut	AISI316L / 1.4404

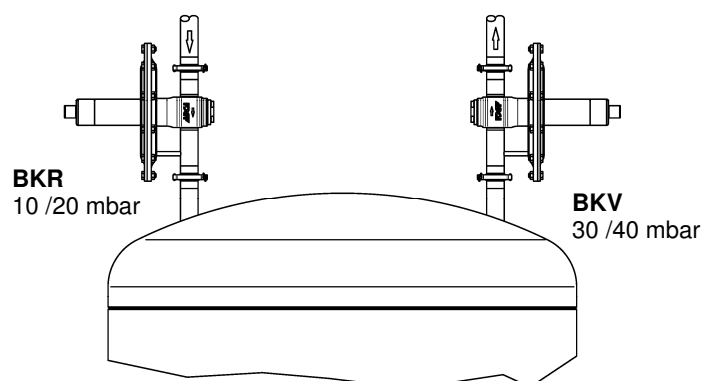
* Available spare parts.

Remarks: FDA/USP Class VI seals certificate on request

All valves have a serial number. In case of non-standard valves this number must be supplied if spare parts are ordered.


Typical installation

Supply 1 – 6 bar


Blanketing with overpressure

Blanketing valves are not substitute of safety valves or vacuum relief valves

We reserve the right to change the design and material of this product without notice.