







(Low pressure vent valve)

## 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).



Compact design.

Completely machined from barstock material, castings or forgings used on the standard version. No rising stem

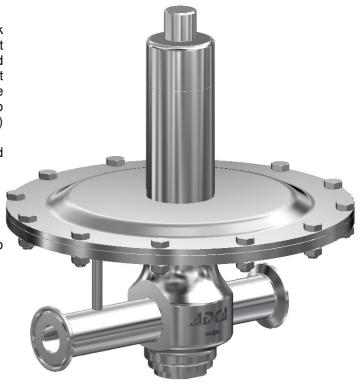
## STANDARD SURFACE FINISH

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

DN 1" - DN25 SIZES:

**OUTLET SPRING** 

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

CONNECTIONS: Clamp ends or others on request

Vertical installation recommended as close to INSTALLATION:

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 ºC	

\*Other on request.

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







STFAM	FOL	IPMENT	
3 1 L / (1/1			

DIMENSIONS (mm)					
SIZE DN	A	В	С	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

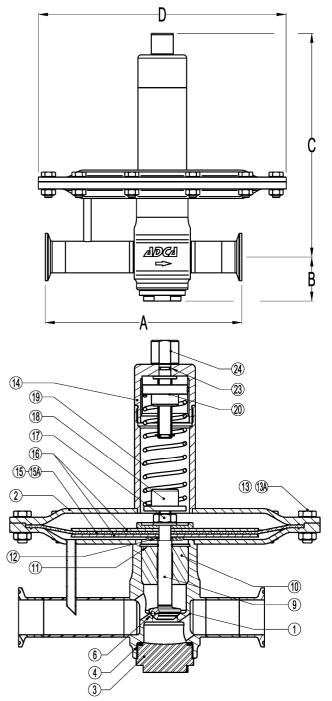
CAPACITIES in Nm3/h (air)				
Set pressure mbar	10	20	40	100
25% Overpressure	5,3	11,8	18	31

Connection examples				
Clamp	Round thread	Flange		
		(A)		

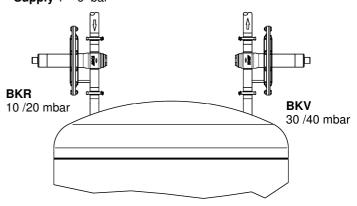
MATERIALS			
POS.	DESIGNATION	MATERIAL	
1	Valve body	AISI316L / 1.4404	
2	Actuator	AISI316L / 1.4404	
3	Seat cover	AISI316L / 1.4404	
4	* O-ring	EPDM	
5	*Piston	AISI316L / 1.4404	
6	* Valve head	EPDM	
7	* O-ring	EPDM	
8	*Valve spring	AISI302 / 1.4300 (Polished)	
9	Stem	AISI316L / 1.4404	
10	Stem guide	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	

<sup>\*</sup> 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.