



SANITARY TANK BLANKETING REGULATORS

BKR

(Low pressure regulator)

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)

Leakage line connection 1/8" (captured vent).
Gauge connection on body
External pulse lines (recommended for low set
pressures < 10 mbar or high flow).
Dome loaded (for higher pressure control)
Angle connection design.
Blanketing with vacuum

USE:	Compressed	air,	nitrogen	and	other	gases
	compatible wi	th the	e construct	tion.		

AVAILABLE MODELS:

RANGES:

BKR - Low pressure regulator

SIZES: DN 1" – DN25 OUTLET SPRING

5 to 500 mbar (4000mbar with dome load)

Capacity (maximum and minimum).

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. For an economical consumption of blanketing gas the pressure must be adjusted to remain slightly above than atmospheric pressure, while filling and empting the vessel ORDER

REQUIREMENTS: Type of fluid Maximum operating temperature Inlet pressure and required outlet pressure

LIMITING CONDITIONS		
Valve model	BKR	
Body design conditions	PN 16	
Max.upstream pressure	6 bar	
Max.downstream pressure	500 mbar	
Min.downstream pressure	5 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			

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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

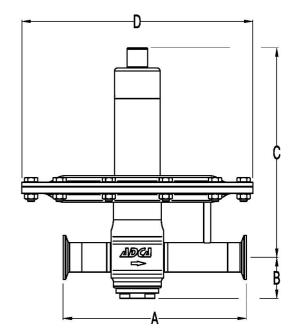
CAPACITIES in Nm3/h (air)				
Inlet pressure bar	1	2	4	6
Outlet pressure 5 to 500 mbar	40	63	102	140

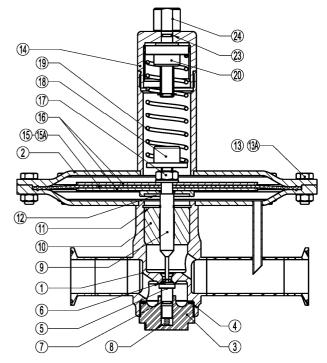
Connection examples				
Clamp	Round thread	Flange		
Guine	Beers of			

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.

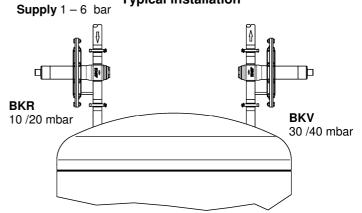
Remarks: FDA/USP Class VI seals certificate on request All valves have a serial number. In case of non-standard valves this number must be supplied if spare parts are ordered.







Typical installation



Blanketing with overpressure

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

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