









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, production losses), to reduce internal corrosion (caused by air and moisture) and to prevent vacuum condition.

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



Compact design.

No rising stem, except when supplied with top cap.

STANDARD SURFACE FINISH

Body and internal wetted parts: ≤ 0,51 micron Ra – SF1.

Body external: ≤ 0.76 micron Ra - SF3.

Cover: internal machined: external as casted.

Other surface conditions see IS PV20.00 E - Technical

information.

Ultrasonic cleaning.

OPTIONS: Diaphragm leakage line connection.

Gauge connection on body.

External pulse line.

Dome loaded (for higher pressure control).

Blanketing with vacuum.

Top cap (adjusting screw sealing).

Hastelloy wetted parts. ATEX (Ex) version.

USE: Compressed air, nitrogen and other gases

compatible with the construction.

AVAILABLE

MODELS: BKV2 - Low pressure venting valve.

1" - DN 25. SIZES:

OUTLET SPRING

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

CONNECTIONS: Clamp ends or others on request.

PACKAGING: Assembling and packaging in a clean room

certified according to ISO 14644-1.

The product is end capped and sealed with recyclable thermo-shrinkable plastic film, to

avoid contamination.

INSTALLATION: Vertical installation recommended (to allow

draining) or horizontal as close to process as possible, in order to prevent long pipe

sections and flow restrictions. See IMI.

ORDER

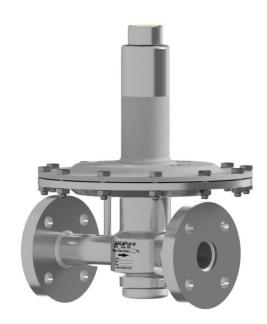
REQUIREMENTS: Type of fluid.

Maximum operating temperature.

Opening pressure.

Capacity (maximum and minimum).





CE MARKING (PED – European Directive)						
PN16	Category					
1" – DN 25	SEP					

CE MARKING – (ATEX – Europ	ATEX VERSION pean Directive)
PN16	Category
DN 25	Ex h IIB T6T3 Gb







AIR CAPACITIES (Nm³/h) Seat Ø 21 mm												
CIZE	SET	INLET PRESSURE (mbar)										
SIZE	PRESSURE	10	20	40	100	200	500					
1" – DN 25	25% Overpressure	5,3	11,8	18	31	52	105					
1" – DN 25	50% Overpressure	7,2	14,5	26	40	66	125					
1" – DN 25	75% Overpressure	8,3	17	30	47	82	136					
1" – DN 25	100% Overpressure	9,8	18	36	52	91	148					

Spring ranges: 5-10 mbar; 10-50 mbar; 20-200 mbar; 50-500 mbar.

	DII	MENSIC	NS (mr	n) CLAI	/IP FER	RULES	ASME E	BPE	
SIZE	Α	В	С	D	F	Н	d1	d2 *	WGT. (kg)
1"	210	49	244	230	50,5	22,1	25	15,75	8,5

	DIMENSIONS (mm) CLAMP FERRULES DIN										
SIZE	Α	В	С	D	F	Н	d1	d2 *	WGT. (kg)		
DN 25	210	49	244	230	50,5	26	25	15,75	8,5		

Clamp ferrules DIN 32676 Series A;

Tube weld DIN 11866 Series A (DIN 11850 Series 2).

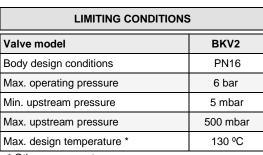
		DIMEN	SIONS	(mm) C	LAMP F	ERRUL	ES ISO		
SIZE	Α	В	С	D	F	н	d1	d2 *	WGT. (kg)
DN 25	210	49	244	230	50,5	29,7	25	15,75	8,5

Clamp ferrules DIN 32676 Series B;

Tube weld DIN 11866 Series B (ISO 1127 Series 1).

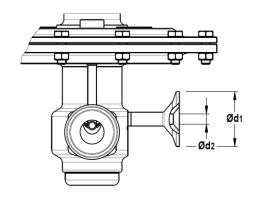
DIMENSIONS (mm) FLANGES DIN EN PN16										
SIZE	Α	В	С	D	d1	d2 *	WGT. (kg)			
DN 25	210	49	244	230	25	15,75	10,6			

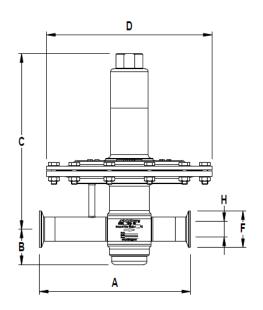
^{*} Special versions or non standard sanitary clamp ferrules are available on request. 1/4" also available for the flanged version.

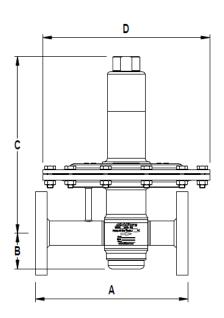


^{*} Other on request.

Warning: Blanketing valves are not substitute for safety valves or vacuum relief valves.



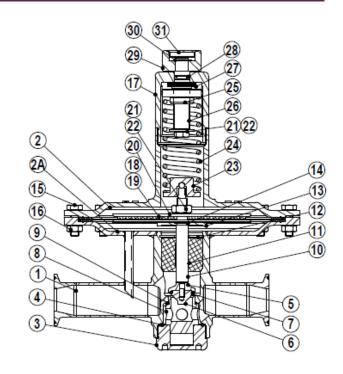


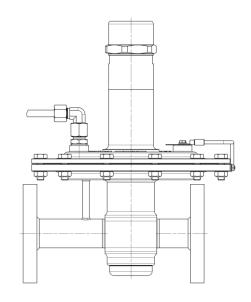






	MATERIA	LS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
•	vaive body	Hastelloy C22 / 2.4602
2	Diaphragm top cover	CF3M / 1.4409
2A	Diaphragm lower cover	AISI 316L / 1.4404
	Diapriragin lower cover	Hastelloy C22 / 2.4602
3	Seat cover	AISI 316L / 1.4404
		Hastelloy C22 / 2.4602
4	* O-ring	EPDM
5	Plug disc	AISI 316L / 1.4404
	- 1 1dg dio0	Hastelloy C22 / 2.4602
6	* Valve head	AISI 316L / 1.4404
		Hastelloy C22 / 2.4602
7	* O-ring	EPDM
8	Seat	AISI 316L / 1.4404
	Cour	Hastelloy C22 / 2.4602
9	* O-ring	EPDM
10	Stem	AISI 316L / 1.4404
10	Steili	Hastelloy C22 / 2.4602
11	Stem guide	PTFE
12	Retaining ring	Stainless steel A2
12	rvetaining mig	Hastelloy C22 / 2.4602
13	Diaphragm plate	AISI 316L / 1.4404
	Diaprilagin plate	Hastelloy C22 / 2.4602
14	* O-ring	EPDM
15	Bolts	Stainless steel A2-70
16	Nuts	Stainless steel A2-70
17	Spring cover	AISI 316L / 1.4404
18	* Lower diaphragm	PTFE (Gylon)
19	* Upper diaphragm	EPDM
20	Diaphragm plate	AISI 316L / 1.4404
21	Nut	Stainless steel A2-70
22	Washer	AISI 316 / 1.4401
23	Lower spring guide	AISI 316L / 1.4404
24	* Regulating spring	AISI 302 / 1.4300
25	Top spring plate	AISI 316L / 1.4404
26	Adjustment screw	Brass
27	Bearing	Corrosion resistant steel
28	* O-ring	NBR
29	Regulating nut	AISI 316L / 1.4404
30	Ext. bowed shaft ring	Stainless steel
31	Cover nut	Plastic

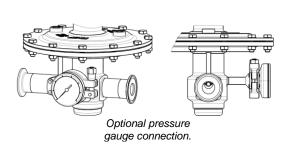




ATEX compliant version.

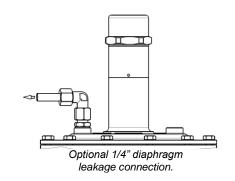
FDA / USP Class VI seals certificate on request.

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





Optional top cap adjusting screw sealing.



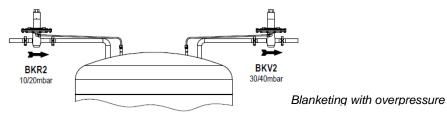


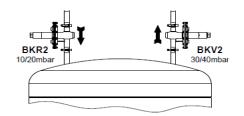
^{*} Available spare parts;





TYPICAL INSTALLATION





ORDERING CODES	3KV2												
Valve model	BV	Α	2	Т	Е	ı	Х	Х	Х	0	D	25	Е
BKV2 – AISI 316L / 1.4404 Blanketing low pressure vent valve	BV												
BKV2 – Hastelloy C22 / 2.4602 Blanketing low pressure vent valve	BVH												
Outlet spring range	l												
Dome loaded for higher pressure control		Α											
5 to 10 mbar		0											
10 to 50 mbar		1	-										
20 to 200 mbar		2	1										
50 to 500 mbar		3	1										
Valve seat orifice		<u> </u>	Ī										
Seat diameter 21 mm			2										
Diaphragm material													
PTFE (Gylon)				т									
Valve head													
EPDM Faire field					E								
Regulating knob, top cap and captured vent					<u> </u>								
Stainless steel regulating knob							1						
Top cap (adjusting screw sealing)						Ť							
Stainless steel regulating knob w/ diaphragm cover leakage connection in o	acc of di	anhr	aam	foil	uro		1						
Top cap (adjusting screw sealing) w/ diaph. cover leakage connect. in case						U	1						
Gauge port options	or diaprii	ayıı	ı ıaıı	uie	(a)	U	i						
Without gauge ports							Х						
Tri-clamp gauge port on the left side (rel. to the flow direction) – Upstream	oroccuro						7						
Tri-clamp gauge port on the left side (ref. to the flow direction) – Opstream Tri-clamp gauge port on the right side (ref. to the flow direction) – Upstream							6	_					
Tri-clamp gauge port on the right side (ref. to the flow direction) – opstream Tri-clamp gauge port on both sides - Upstream pressure	piessuit	7					5						
Threaded gauge port on both sides - Opstream pressure Threaded gauge port on the left side (rel. to the flow direction) – Upstream	proceuro						4						
							3						
Threaded gauge port on the right side (rel. to the flow direction) – Upstream	pressur	U					2						
Threaded gauge port on both sides - Upstream pressure								_					
Surface finish, special services and optio	ns							v	1				
None (fine machined)								X	-				
Mechanical polishing P													
Electropolishing								E	1				
Special features									V				
None Futamel pulse line									Х				
External pulse line										_			
Internal pulse orifice (standard) External pulse line connection 1/4"										0			
										1			
Pipe connection											_		
Clamp ferrule ASME BPE											D F		
Clamp ferrule DIN (DIN 32676-A)													
Clamp ferrule ISO (DIN 32676-B)											E L		
Flanged EN 1092-1 PN16											<u> </u>		
Size												0-	
1" or DN 25												25	
Special valves / Extra	S												_
ATEX compliant version													EX
Full description or additional codes have to be added in case of a non stan-	dard com	bina	tion										Ε

⁽a) Choose this option if you are ordering an ATEX compliant version.