



TANK BLANKETING REGULATORS BKVI2 (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, 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).

MAIN FEATURES

Compact design. No rising stem, except when supplied with top cap.

STANDARD SURFACE FINISH

Internal wetted parts: ≤ 0,51 micron Ra – SF1. Body and cover Internal: machined / as casted. External: as casted. 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).
	ATEX 🐼 version.

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

MODELS: BKVI – Low pressure venting valve.

SIZES: DN 15 and DN 25.

CONNECTIONS: Flanged EN 1092-1 PN16.

OUTLET SPRING RANGES:

AVAILABLE

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

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.

ORDER REQUIREMENTS: Type of fluid. Maximum operating temperature. Opening pressure. Capacity (maximum and minimum).

CE MARKING (PED -	European Directive)
PN16	Category
DN 15 and DN 25	SEP

CE MARKING – ATEX VERSION (ATEX – European Directive)							
PN16	Category						
DN 15 and DN 25	Ex h IIB T6T3 Gb						

VALSTEAM JDCJ



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





AIR CAPACITIES (Nm³/h) Seat Ø 21 mm

	ocar o 21 mm										
SIZE	SET		INLET	PRES	SURE (mbar)					
DN	PRESS.	10	20	40	100	200	500				
15	25% Overpressure	4,5	10,5	16	27	45	95				
15	50% Overpressure	4,5	10,5	16	27	45	95				
15	75% Overpressure	4,5	10,5	16	27	45	95				
15	100% Overpressure	4,5	10,5	16	27	45	95				
25	25% Overpressure	5,3	11,8	18	31	52	105				
25	50% Overpressure	7,2	14,5	26	40	66	125				
25	75% Overpressure	8,3	17	30	47	82	136				
25	100% Overpressure	9,8	18	36	52	91	148				

LIMITING CONDITIONS

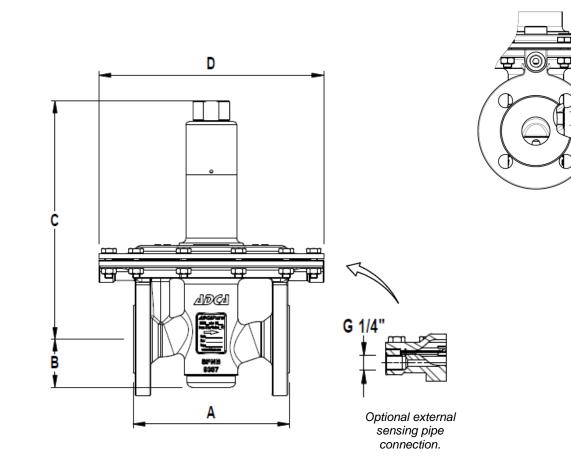
Valve model	BKVI2
Body design conditions	PN16
Max. operating pressure	6 bar
Min. upstream pressure	5 mbar
Miax. upstream pressure	500 mbar
Max. design temperature *	130 ºC

* Other on request.

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

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

	DIMENSIONS (mm) FLANGES DIN EN PN16									
SIZE	А	В	с	D	d1	WGT. (kg)				
DN 15	130	47,5	243,5	230	1/4"	9,7				
DN 25	160	57,5	243,5	230	1/4"	10,8				



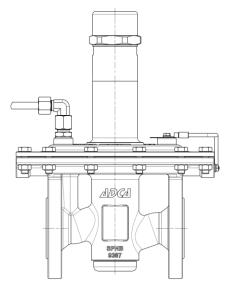


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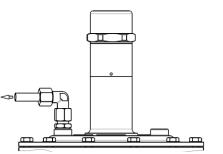


POS. NºDESIGNATIONMATERIAL1Valve bodyCF3M / 1.44092Diaphragm top coverCF3M / 1.44093Seat coverAISI 316L / 1.44044* O-ringEPDM5Plug discAISI 316L / 1.44046* Valve headAISI 316L / 1.44047* O-ringEPDM8SeatAISI 316L / 1.44049* O-ringEPDM8SeatAISI 316L / 1.44049* O-ringEPDM10StemAISI 316L / 1.440411Stem guidePTFE12Retaining ringStainless steel A213Diaphragm plateAISI 316L / 1.440414* O-ringEPDM15BoltsStainless steel A2-7016NutsStainless steel A2-7017Spring coverAISI 316L / 1.440418* Lower diaphragmPTFE (Gylon)19* Upper diaphragmEPDM20Diaphragm plateAISI 316L / 1.440421NutStainless steel A2-7022WasherAISI 316L / 1.440423Lower spring guideAISI 316L / 1.440424* Regulating springAISI 316L / 1.440425Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR29Regulating nutAISI 316L / 1.4404		MATERIALS							
2Diaphragm top coverCF3M / 1.44092ADiaphragm lower coverAISI 316L / 1.44043Seat coverAISI 316L / 1.44044*O-ringEPDM5Plug discAISI 316L / 1.44046*Valve headAISI 316L / 1.44047*O-ringEPDM8SeatAISI 316L / 1.44049*O-ringEPDM8SeatAISI 316L / 1.44049*O-ringEPDM10StemAISI 316L / 1.440411Stem guidePTFE12Retaining ringStainless steel A213Diaphragm plateAISI 316L / 1.440414*O-ringEPDM15BoltsStainless steel A2-7016NutsStainless steel A2-7017Spring coverAISI 316L / 1.440418*Lower diaphragmPTFE (Gylon)19*Upper diaphragmEPDM20Diaphragm plateAISI 316L / 1.440421NutStainless steel A2-7022WasherAISI 316L / 1.440423Lower spring guideAISI 316L / 1.440424*Regulating springAISI 316L / 1.440425Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28*O-ringNBR		DESIGNATION	MATERIAL						
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9* O-ringEPDM10StemAISI 316L / 1.440411Stem guidePTFE12Retaining ringStainless steel A213Diaphragm plateAISI 316L / 1.440414* O-ringEPDM15BoltsStainless steel A2-7016NutsStainless steel A2-7017Spring coverAISI 316L / 1.440418* Lower diaphragmPTFE (Gylon)19* Upper diaphragmEPDM20Diaphragm plateAISI 316L / 1.440421NutStainless steel A2-7022WasherAISI 316L / 1.440423Lower spring guideAISI 316L / 1.440424* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	7	* O-ring	EPDM						
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13Diaphragm plateAISI 316L / 1.440414* O-ringEPDM15BoltsStainless steel A2-7016NutsStainless steel A2-7017Spring coverAISI 316L / 1.440418* Lower diaphragmPTFE (Gylon)19* Upper diaphragmEPDM20Diaphragm plateAISI 316L / 1.440421NutStainless steel A2-7022WasherAISI 316L / 1.440423Lower spring guideAISI 316 / 1.440124* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	11	Stem guide	PTFE						
14* O-ringEPDM15BoltsStainless steel A2-7016NutsStainless steel A2-7017Spring coverAISI 316L / 1.440418* Lower diaphragmPTFE (Gylon)19* Upper diaphragmEPDM20Diaphragm plateAISI 316L / 1.440421NutStainless steel A2-7022WasherAISI 316L / 1.440423Lower spring guideAISI 316L / 1.440424* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	12	Retaining ring	Stainless steel A2						
15BoltsStainless steel A2-7016NutsStainless steel A2-7017Spring coverAISI 316L / 1.440418* Lower diaphragmPTFE (Gylon)19* Upper diaphragmEPDM20Diaphragm plateAISI 316L / 1.440421NutStainless steel A2-7022WasherAISI 316 / 1.440123Lower spring guideAISI 316 / 1.440424* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	13	Diaphragm plate	AISI 316L / 1.4404						
16NutsStainless steel A2-7017Spring coverAISI 316L / 1.440418* Lower diaphragmPTFE (Gylon)19* Upper diaphragmEPDM20Diaphragm plateAISI 316L / 1.440421NutStainless steel A2-7022WasherAISI 316 / 1.440123Lower spring guideAISI 316L / 1.440424* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	14	* O-ring	EPDM						
17Spring coverAISI 316L / 1.440418* Lower diaphragmPTFE (Gylon)19* Upper diaphragmEPDM20Diaphragm plateAISI 316L / 1.440421NutStainless steel A2-7022WasherAISI 316 / 1.440123Lower spring guideAISI 316L / 1.440424* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	15	Bolts	Stainless steel A2-70						
18* Lower diaphragmPTFE (Gylon)19* Upper diaphragmEPDM20Diaphragm plateAISI 316L / 1.440421NutStainless steel A2-7022WasherAISI 316 / 1.440123Lower spring guideAISI 316L / 1.440424* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	16	Nuts	Stainless steel A2-70						
19* Upper diaphragmEPDM20Diaphragm plateAISI 316L / 1.440421NutStainless steel A2-7022WasherAISI 316 / 1.440123Lower spring guideAISI 316L / 1.440424* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	17	Spring cover	AISI 316L / 1.4404						
20Diaphragm plateAISI 316L / 1.440421NutStainless steel A2-7022WasherAISI 316 / 1.440123Lower spring guideAISI 316L / 1.440424* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	18	* Lower diaphragm	PTFE (Gylon)						
21NutStainless steel A2-7022WasherAISI 316 / 1.440123Lower spring guideAISI 316L / 1.440424* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	19	* Upper diaphragm	EPDM						
22WasherAISI 316 / 1.440123Lower spring guideAISI 316L / 1.440424* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	20	Diaphragm plate	AISI 316L / 1.4404						
23Lower spring guideAISI 316L / 1.440424* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	21	Nut	Stainless steel A2-70						
24* Regulating springAISI 302 / 1.430025Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	22	Washer	AISI 316 / 1.4401						
25Top spring plateAISI 316L / 1.440426Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	23	Lower spring guide	AISI 316L / 1.4404						
26Adjustment screwBrass27BearingCorrosion resistant steel28* O-ringNBR	24	* Regulating spring	AISI 302 / 1.4300						
27 Bearing Corrosion resistant steel 28 * O-ring NBR	25	Top spring plate	AISI 316L / 1.4404						
28 * O-ring NBR	26	Adjustment screw	Brass						
	27	Bearing	Corrosion resistant steel						
29 Regulating nut AISI 316L / 1.4404	28	* O-ring	NBR						
	29	Regulating nut	AISI 316L / 1.4404						
30 Ext. bowed shaft ring Stainless steel	30	Ext. bowed shaft ring	Stainless steel						
31 Cover nut Plastic	31	Cover nut	Plastic						

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ATEX compliant version

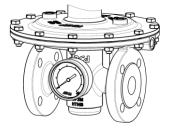


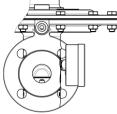
Optional 1/4" diaphragm leakage connection.

* Available spare parts;

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 pressure gauge connection.



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

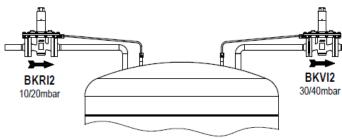
Optional top cap

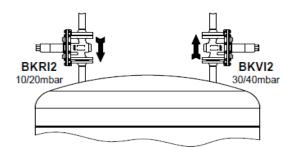
adjusting screw sealing.





TYPICAL INSTALLATION





Blanketing with overpressure

Outlet spring range A Dome loaded for higher pressure control A 5 to 10 mbar 0 10 to 50 mbar 1 20 to 200 mbar 2 50 to 500 mbar 2 50 to 500 mbar 2 50 to 500 mbar 2 Seat diameter 21 mm 2 Diaphragm material T PTFE (Gylon) T EPDM E Regulating knob, top cap and captured vent E Stainless steel regulating knob 1 Top cap (adjusting screw sealing) T Stainless steel regulating knob / diaphragm cover leakage connection in case of diaphragm failure L Top cap (adjusting screw sealing) w/ diaph. cover leakage connection in case of diaphragm failure L Gauge port options X Without gauge ports X Threaded gauge port on the left side (rel. to the flow direction) – Upstream pressure 3 Threaded gauge port on both sides - Upstream pressure 2 Surface finish, special services and options X Mechanical polishing P Electropolishing P Electropolishing <th>ORDERING CODES BK</th> <th>(VI2</th> <th></th>	ORDERING CODES BK	(VI2												
BKVI2 - CF3M / 1.4409 Blanketing low pressure vent valve BVI Outlet spring range Dome loaded for higher pressure control A 5 to 10 mbar 0 10 to 50 mbar 1 20 to 200 mbar 2 50 to 500 mbar 2 50 to 500 mbar 2 50 to 500 mbar 2 Diaphragm material T PTFE (Gylon) T Top cap (adjusting knob, top cap and captured vent 1 Stainless steel regulating knob, top cap and captured vent 1 Top cap (adjusting screw sealing) T Stainless steel regulating knob w/ diaphragm cover leakage connection in case of diaphragm failure (a) U Gauge port options X Threaded gauge port on the left side (rel. to the flow direction) – Upstream pressure 4 Threaded gauge port on bit side (rel. to the flow direction) – Upstream pressure 2 Surface finish, special services and options X Mechanical polishing P Electropolishing Z Corpolishing X None X Mechanical polishing E Corpolishing X Theraded polishing X Feternal pulse line X Internal pulse orifice (standard)	Valve model	BVI	Α	2	Т	Ε	I	Х	Х	Х	0	L	15	Е
Outlet spring range Dome loaded for higher pressure control A 5 to 10 mbar 0 10 to 50 mbar 1 20 to 200 mbar 2 Sto 10 mbar 2 Sto 10 mbar 2 Sto 500 mbar 2 Seat diameter 21 mm 2 Diaphragm material T PTFE (Gylon) T Regulating knob, top cap and captured vent T Stainless steel regulating knob widiaphragm cover leakage connection in case of diaphragm failure L Top cap (adjusting screw sealing) Valve head T Stainless steel regulating knob widiaphragm cover leakage connection in case of diaphragm failure (a) U Gauge port options X Without gauge ports X Threaded gauge port on the right side (rel. to the flow direction) – Upstream pressure 3 Threaded gauge port on the right side (rel. to the flow direction) – Upstream pressure 3 None X Mechanical polishing P Electropolishing X Internal pulse onfice (standard) 0 External pulse line 0 Exter														
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