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VACUUM BREAKER VB16



VACUUM BREAKER VB16

DESCRIPTION

The VB16 vacuum breakers are simple and reliable devices that automatically relieve or “break” an unwanted vacuum condition, restoring the atmospheric pressure.

This device is particularly suitable for steam heated units of small and medium volume, such as heat exchangers, heating coils, calorifiers, jacketed kettles, steam boilers, etc.

OPTIONS: Stainless steel inlet deflector.

USE: Saturated steam and other gases compatible with the construction.

AVAILABLE MODELS: VB16 – stainless steel.

SIZES: 1/2” to 1”.

REGULATING

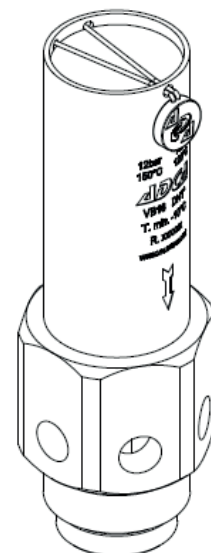
RANGES: 0,05 – 0,10 bar; 0,09 – 0,20 bar; 0,19 – 0,30 bar; 0,29 – 0,40 bar; 0,39 – 0,50 bar.

CONNECTIONS: Male threaded ISO 228 G.

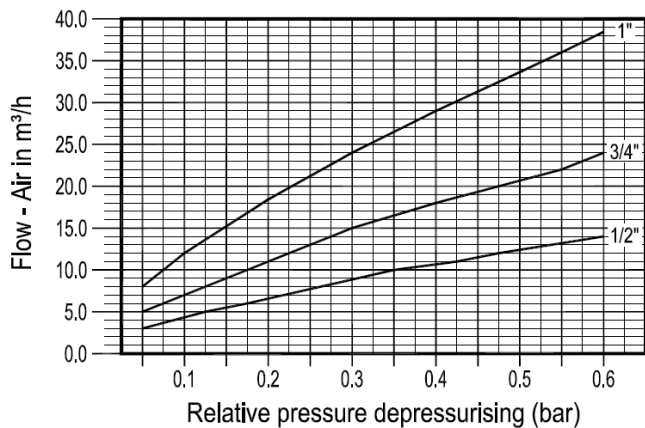
INSTALLATION: Vertical installation.
See IMI – Installation and maintenance instructions.

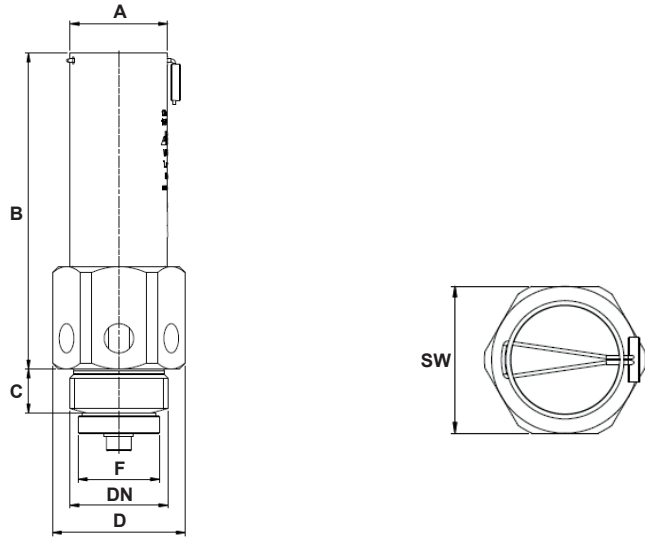
LIMITING

CONDITIONS: 12 bar at 150 °C.
 16 bar at 120 °C.



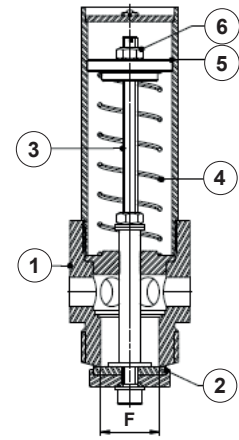
CAPACITY CHART





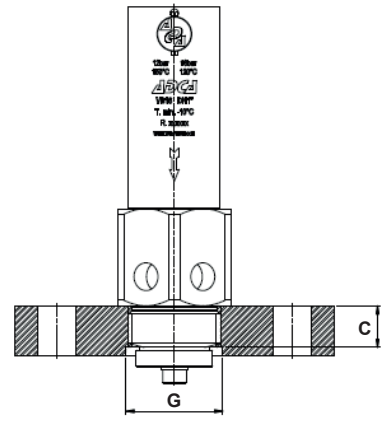
DIMENSIONS (mm)									
SIZE	A	B	C	D	E	F	G	SW	WEIGHT (kg)
1/2"	26	82	11	35	18	12,5	23	32	0,25
3/4"	33	85	13	39	21	16,5	28	36	0,34
1"	33	108	15	45	27,5	20	35	41	0,51

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	AISI 316 / 1.4401
2	* Valve	AISI 316 / 1.4401 ; Viton
3	Stem	AISI 304 / 1.4301
4	* Spring	AISI 302 / 1.4300
5	Spring guide	AISI 304 / 1.4301
6	Nut	Stainless steel A2-70

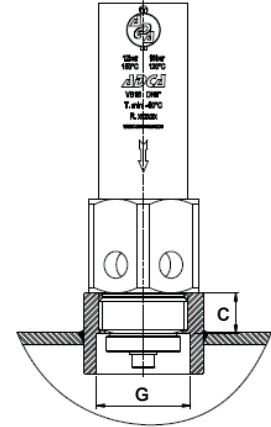


* Available spare parts.

TYPICAL INSTALLATION



With flange



With socket

VACUUM BREAKER VB16C

DESCRIPTION

The VB16C vacuum breakers are simple and reliable devices that automatically relieve or “break” an unwanted vacuum condition, restoring the atmospheric pressure.

This device is particularly suitable for steam heated units of small and medium volume, such as heat exchangers, heating coils, calorifiers, jacketed kettles, steam boilers, etc.

MAIN FEATURES

Internal wetted parts: $\leq 0,51$ micron Ra – SF1.

External: $\leq 0,76$ micron Ra – SF3.

Other surface conditions see IS PV20.00 E – Technical information.

Ultrasonic cleaning.

USE: Saturated steam and other gases compatible with the construction.

AVAILABLE MODELS: VB16C.

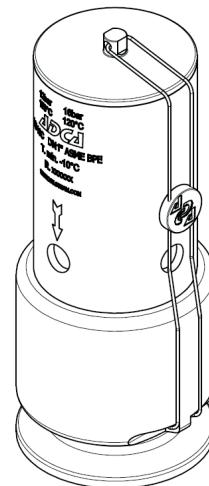
SIZES: 1” – DN 25.

REGULATING RANGES: 0,05 – 0,10 bar; 0,09 – 0,20 bar; 0,19 – 0,30 bar; 0,29 – 0,40 bar; 0,39 – 0,50 bar.

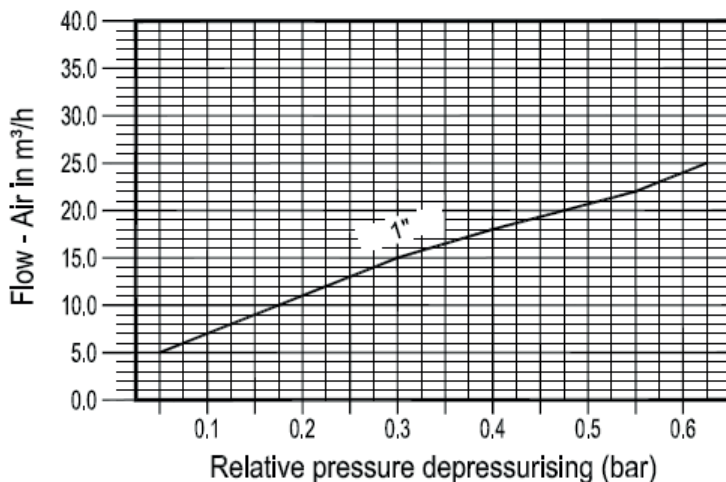
CONNECTIONS: ASME BPE, DIN and ISO clamp ferrules. Others on request.

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. See IMI – Installation and maintenance instructions.



CAPACITY CHART



LIMITING CONDITIONS

Body design conditions	PN 16
Maximum operating pressure	13 bar @ 38°C
Maximum operating steam pressure	6 bar
Max. operating temp. (steam and water)	170 °C
Maximum operating temperature (air)	150 °C
Minimum operating temperature	- 10 °C

CE MARKING – GROUP 2 (PED – European Directive)

PN 16	Category
1” – DN 25	SEP

DIMENSIONS (mm) ASME BPE

SIZE	A	B	F	H	WEIGHT (kg)
1"	120	42	50,5	22,1	0,85

DIMENSIONS (mm) DIN

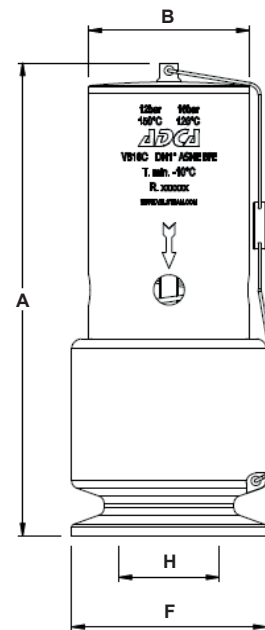
SIZE	A	B	F	H	WEIGHT (kg)
DN 25	120	42	50,5	26	0,85

Remark: Clamp ferrules according to DIN 32676-A.

DIMENSIONS (mm) ISO

SIZE	A	B	F	H	WEIGHT (kg)
DN 25	120	42	50,5	29,7	0,85

Remark: Clamp ferrules according to DIN 32676-B.

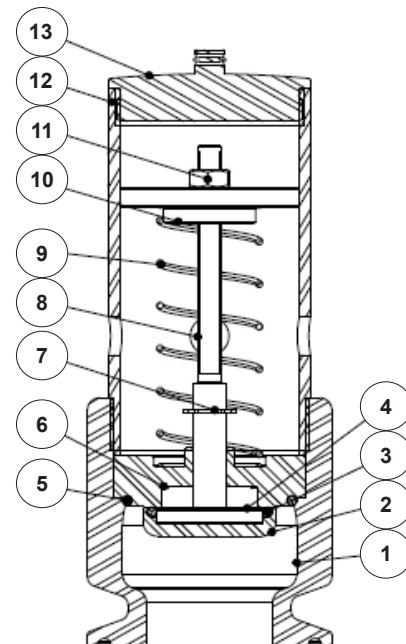


MATERIALS

POS. N°	DESIGNATION	MATERIAL
1	Body	AISI 316L / 1.4404
2	* Valve plug	AISI 316L / 1.4404
3	* O-ring	High performance EPDM
4	* Plug disc	AISI 316L / 1.4404
5	* O-ring	High performance EPDM
6	Seat	AISI 316L / 1.4404
7	* Retaining washer	Stainless steel A2-70
8	* Stem	AISI 316L / 1.4404
9	* Spring	AISI 302 / 1.4300
10	Spring guide	AISI 316L / 1.4404
11	Nut	Stainless steel A2-70
12	Spring cover	AISI 316L / 1.4404
13	Top cover	AISI 316L / 1.4404

* Available spare parts.

Remarks: FDA / USP Class VI seals certificate on request.



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