

## VACUUM BREAKER VB 16C

### 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 as heat exchangers, heating coils, calorifiers, jacketed kettles, steam boilers, etc.

### STANDARD SURFACE FINISH

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

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

Other surface conditions see IS PV20.00-Technical information.

Ultrasonic cleaning.

OPTIONS: Different kind of connection.

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

### AVAILABLE MODELS:

VB16C.

### SIZES:

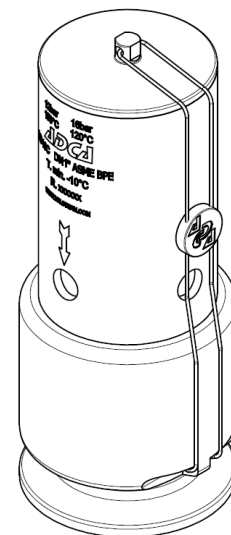
1" – DN 25.

CONNECTIONS: ASME BPE, DIN and ISO.

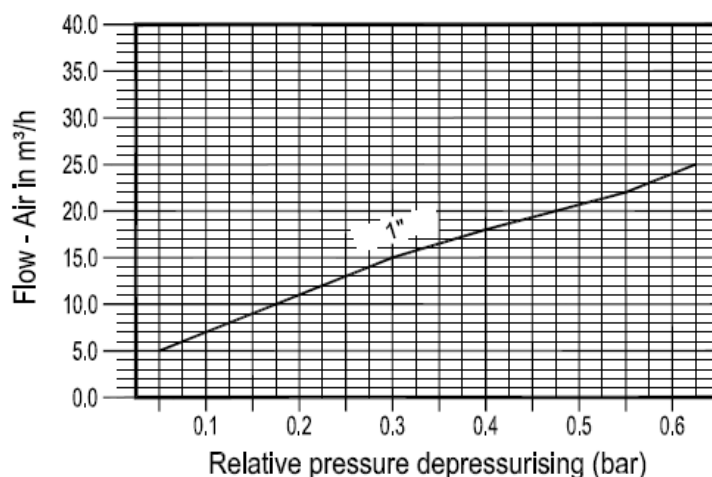
Clamp ferrules or others on request.

PACKAGING: Assembling and packaging in a clean room certified according to ISO 14644-1. The product is end capped and vacuum sealed with recyclable plastic film to avoid contamination.

INSTALLATION: Vertical installation.  
See IMI, installation and maintenance instructions.



CAPACITY CHART

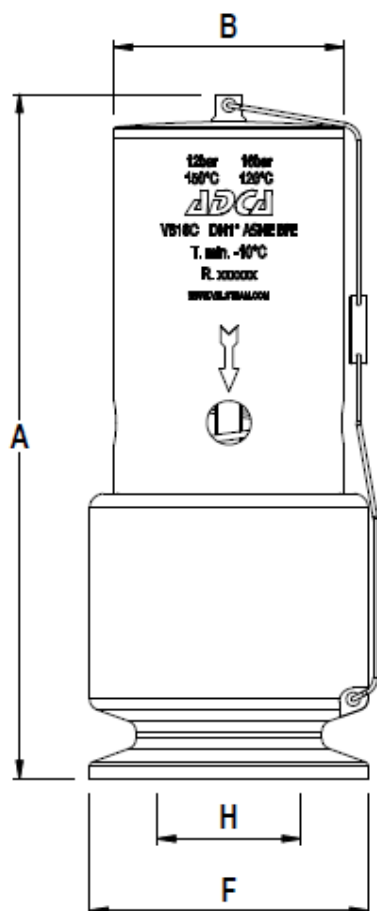


### LIMITING CONDITIONS

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

### CE MARKING (PED - European Directive)

PN 16	Category
1"-DN25	SEP



DIMENSIONS (mm)									
SIZE	A	B	F ASME	H ASME	F DIN	H DIN	F ISO	H ISO	WGT. Kg
1" - 25	120	42	50,5	22,1	50,5	26	50,5	29,7	0,85

Set depressurising bar:

(0,05-0,10), (0,09-0,20), (0,19-0,30), (0,29-0,40), (0,39-0,50).

Standards:

ASME : ASME BPE.

DIN: Clamp ferrules DIN 32676 Series A.

ISO: Clamp ferrules DIN 32676 Series B.

MATERIALS		
POS.Nr.	DESIGNATION	MATERIAL
1	Body	AISI316L / 1.4406
2	*Valve plug	AISI316L / 1.4406
3	* O-ring	High performance EPDM
4	* Plug disc	AISI316L / 1.4406
5	* O-ring	High performance EPDM
6	Seat	AISI316L / 1.4406
7	* Retaining washer	St.Steel A2-70
8	* Stem	AISI316L / 1.4406
9	* Spring	AISI302 / 1.4300
10	Spring guide	AISI316L / 1.4406
11	Nut	St.Steel A2-70
12	Cover spring	AISI316L / 1.4406
13	Top cover	AISI316L / 1.4406

\*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.

