

vent valves TYPE VB01 / VB02



description:

Vent valves are used for protection against and prevention of vacuum in containers or closed systems.

product features:

- suitable for neutral gaseous media like air, gases & technical fumes
- protection of vacuum in tanks, pipeline systems, heat exchanger and containers

connection:

1/2", 3/4", 1", 2"

temperature:

-60°C to +225°C

pressure:

-6 mbar to -800mbar
-depending on design-

material:

component

entrance body
leakage body
interior parts
seal
secondary seal

material

stainless steel
stainless steel
stainless steel
PTFE
PTFE

DIN EN

1.4404
1.4404
1.4404
PTFE
PTFE

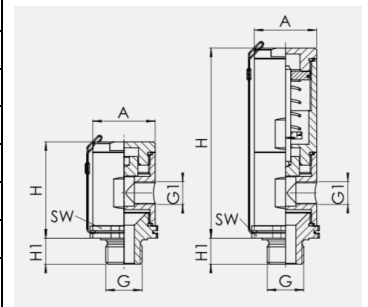
ASME

316L
316L
316L
PTFE
PTFE

dimensions:

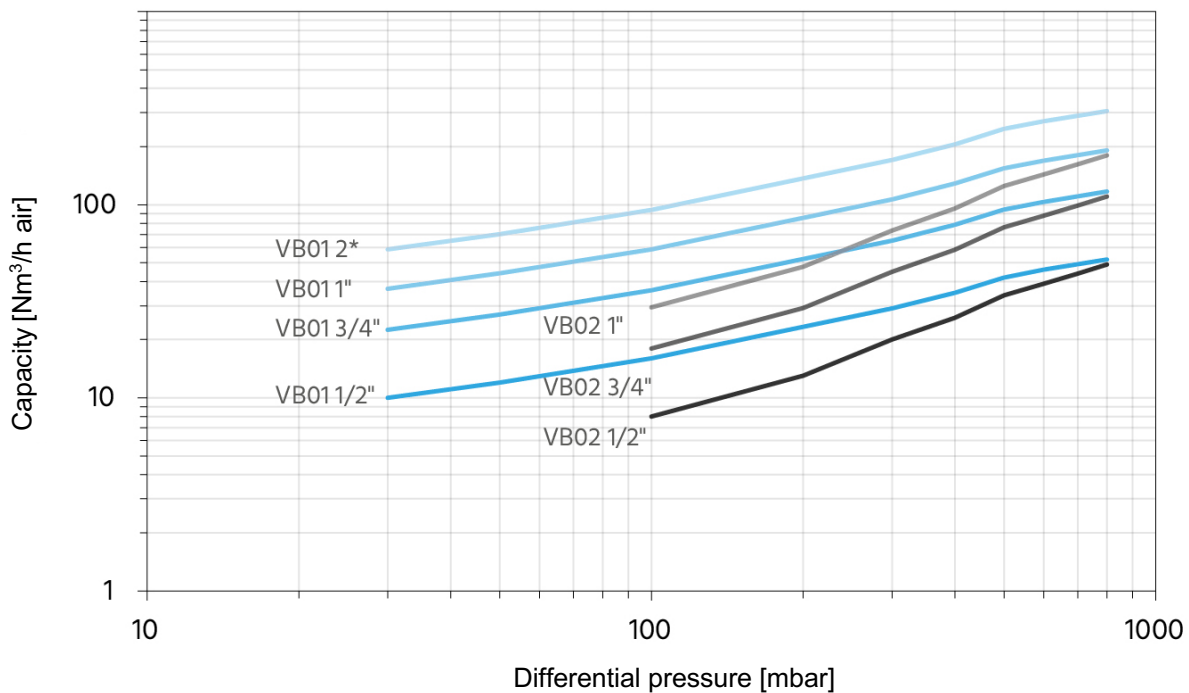
	VB01				VB02		
diameter DN	15	20	25	50	15	20	25
PN	40	40	40	40	40	40	40
Entrance G*	1/2"	3/4"	1"	2"	1/2"	3/4"	1"
Entrance G1*	1/4"	1/2"	3/4"	1 1/2"	1/4"	1/2"	3/4"
H	55,4	63,4	69	122,5	109,4	117	123
H1	15	17	19	22	15	17	19
A	36	52	64	94	36	52	64
SW	36	52	64	88	36	52	64
weight	0,37	0,80	1,26	4,1	0,65	1,31	2
adjustment range mbar	-6	-6	-6	-6	-100 to -800	-100 to -800	-100 to -800

* thread / connection acc. to DIN EN ISO 228



type VB01 type VB02

performance chart:



* Size 2" inch only available for type VB01

VB01:

Differential pressure	Capacity							
	1/2"		3/4"		1"		2"	
mbar	Nm³/h	l/s	Nm³/h	l/s	Nm³/h	l/s	Nm³/h	l/s
30	10,0	2,8	22,5	6,3	36,7	10,2	58,7	16,3
50	12,0	3,3	27,0	7,5	44,1	12,3	70,4	19,6
100	16,0	4,4	36,0	10,0	58,8	16,3	93,9	26,1
300	29,0	8,1	65,2	18,1	106,5	29,6	170,2	47,3
400	35,0	9,7	78,7	21,9	128,6	35,7	205,4	57,1
500	42,0	11,7	94,5	26,3	154,3	42,9	246,5	68,5
600	46,0	12,8	103,5	28,8	169,0	46,9	269,9	75,0
800	52,0	14,4	117,0	32,5	191,0	53,1	305,1	84,8

VB02:

Differential pressure	Capacity					
	1/2"		3/4"		1"	
mbar	Nm³/h	l/s	Nm³/h	l/s	Nm³/h	l/s
100	8,0	2,2	18,0	5,0	29,4	8,2
200	13,0	3,6	29,2	8,1	47,8	13,3
300	20,0	5,6	45,0	12,5	73,5	20,4
400	26,0	7,2	58,5	16,3	95,5	26,5
500	34,0	9,4	76,5	21,3	124,9	34,7
600	39,0	10,8	87,7	24,4	143,3	39,8
700	44,0	12,2	99,0	27,5	161,6	44,9
800	49,0	13,6	110,2	30,6	180,0	50,0

conversion:

$$\text{Nm}^3/\text{h} \times \frac{1000}{3600} = \text{NI/s}$$

type VB01 opening at -6 mbar (=0,994 bar abs.)

The capacity increases with increasing differential pressure.

Example connection 1":

The capacity on differential pressure of 60 mbar is 50 Nm³/h air which equates to 13,9 NI/s

The capacity on differential pressure of 200 mbar is 82 Nm³/h air which equates to 22,8 NI/s

type VB02 adjustable from -100 up to -800 mbar (=0,9 up to 0,2 bar abs.)

The capacity is independent of set pressure and increases with increasing differential pressure.

Example connection 1/2":

The capacity on differential pressure of 100 mbar is 8 Nm³/h air which equates to 2,2 NI/s

The capacity on differential pressure of 400 mbar is 26 Nm³/h air which equates to 7,2 NI/s

Installation and assembly:

Installation must only be performed by qualified staff, and when the pipeline system is unpressurised. Pipes are to be flushed to remove residues before valve installation. Such residues may cause damage to the valve interior and result in functional disorder including valve failure.

The valve is operated in a vertical installation position. The system connection must point downward.

article number:

Type	Connection	Seal	Size
VB01 – pressure: -6mbar	00 – male thread	00 – PTFE	03 – 1/2"
VB02 – pressure: -100 up to -800mbar*			04 – 3/4"
			05 – 1"
			08 – 2"

Example no. VB01000004:

VB01	00	00	04
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Vent valve made of stainless steel

Opening pressure: -6 mbar

Seal: PTFE

Size: 3/4"

* Please note: adjustable

** Size 2" inch only available for type VB01

Image similar, subject change without notice.