

LEVEL CONTROL

Bleeding and venting valve EB 1.12

Continuous bleeding valve with DVGW approval for small to high flow rates

MANKENBERG

Technical data

Connection DN	25 - 100
Connection G	1/2 - 2
Nominal pressure PN	16
Operating pressure	0 - 16 bar
Flow rate	248 Nm ³ /h
Temperature	130 °C
Medium	liquids

Description

Bleeding and venting valves remove air or gases from systems or pipelines without requiring an external energy input. When a system is drained they act as venting valves.

The EB 1.12 bleeding/venting valves are compact and lightweight float-controlled valves for water treatment (incl. ozone), pipelines, petrol tanks etc. They are manufactured from deep-drawn stainless steel with excellent corrosion resistance. The valve cone can be fitted with a soft or metallic seal. Top and bottom sections of the valve body are connected by a clamp ring and two bolts.

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The simple design makes it easy to specify, install, handle and service these valves in an industrial environment.

Valves for continuous bleeding must not be overdimensioned. If a larger valve size is selected, a higher working pressure range with a correspondingly lower flow volume should be chosen. In case of doubt, we shall be happy to advise you.

On filter vessels the bleed connection is often located in the middle of the vessel. If the flow volume is large and the distance between distribution funnel and bleed connection small, the incoming water jet hits the bleed connection. This will impair the efficiency of the bleed valve and can result in water hammer. This problem may be avoided by installing a baffle or by placing the bleed connection away from the centre.

Standard

- » All stainless steel construction
- » Quick-release body clamp ring

Options

- » Ozone-resistant design
- » Various seal materials suitable for your medium
- » Kunststoffbeschichtung für aggressive Flüssigkeiten
- » Special materials such as Duplex, Superduplex or titanium, others on request
- » Special connections: Aseptic, ANSI or JIS flanges, welding ends, other connections on request
- » Special versions on request

Product



Picture similar

Technical specification

Pressure ranges [bar]

nominal diameter	G 1/2 - 3/4		
Pressure ranges bar	0 - 2	0 - 6	0 - 16

Pressure ranges [bar]

nominal diameter	G 1 - 2, DN 25 - 100			
press. ranges bar	0 - 2	0 - 6	0 - 10	0 - 16

Please state working pressure range when enquiring or ordering.

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Materials

Materials*		
Design	Standard	
Nominal diameter	G 1/2 - 2, DN 25-50	DN 65-100
Temperature	130 °C	130 °C
Body	Stainless steel	Stainless steel
Body seal	EPDM	EPDM
Internals	Stainless steel	Stainless steel
Float	Stainless steel	Stainless steel
Valve seal	EPDM	Stainless steel
Profile camp	Stainless steel	Stainless steel

*All materials equal or of higher quality

Dimensions and weights

Dimensions [mm]						
size	inlet female					
	G 1/2	G 3/4	G 1	G 1 1/4	G 1 1/2	G 2
	outlet male G 1/2A			outlet male G 3/4A		
A*	109	109	146	149	149	145
B	57	57	140	140	140	140
C	127	127	185	190	190	185
D	140	140	200	200	200	200

Dimensions [mm]							
size	nominal diameter						
	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
	outlet male G 3/4A						
A*	161	163	165	164	250	255	257
B	140	140	140	140	113	113	113
C	200	200	205	205	295	300	305
D	200	200	200	200	265	265	265

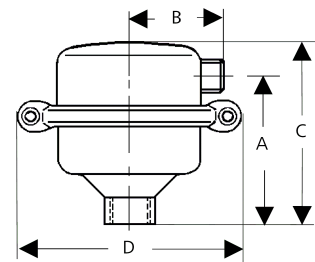
*overall length tolerances in acc. with DIN EN 558

Weights [kg] G 1/2 - 2						
inlet female						
G 1/2	G 3/4	G 1	G 1 1/4	G 1 1/2	G 2	
0.8	0.8	2.6	2.6	2.7	3.1	

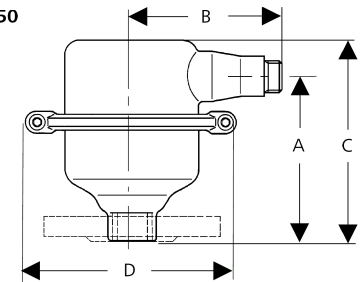
Weights [kg] DN 25 - 100						
nominal diameter						
DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100
3.5	4.2	4.2	5	11	11	12

Customs tariff number	
84818059	

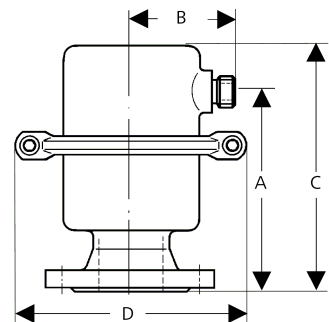
EB 1.12 G 1/2 - 3/4



EB 1.12 G 1 - 2, DN 25 - 50



EB 1.12 DN 65 - 100



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Flow rate

Flow rate [Nm³/h] G ½ - ¾			
Δp bar	pressure ranges bar *		
	0 - 2	0 - 6	0 - 16
0.1	3.1	1	0.3
0.2	4.4	1.4	0.4
0.5	6.8	2.2	0.6
1	8.6	2.8	0.7
2	12	4.2	1
4		7	1.7
6		9.8	2.4
8			3.1
10			3.8
12			4.5
16			5.9

Flow rate [Nm³/h] G 1 - 2, DN 25 - 50				
Δp bar	pressure ranges bar *			
	0 - 2	0 - 6	0 - 10	0 - 16
0.1	14	6.4	4.1	3.1
0.2	20	9	5.7	4.4
0.5	31	13	8.9	6.8
1	39	17	11	8.6
2	59	26	16	12
4		44	28	21
6		61	39	30
8			50	38
10			62	47
12				53
16				73

Flow rate [Nm³/h] DN 65 - 100				
Δp bar	pressure ranges bar *			
	0 - 2	0 - 6	0 - 10	0 - 16
0.1	25	25	16	8
0.2	36	36	23	11
0.5	55	55	35	16
1	70	70	45	21
2	106	106	67	32
4		176	113	53
6		246	157	75
8			203	96
10			248	118
12				139
16				182

The quoted flow volumes apply to a fully open valve i.e. in start-up condition at 0 °C and 1,013 mbar. With continuous bleeding e.g. of filter vessels, the maximum flow volume is 30 % less on average.

Authorised Distributor:



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Selangor Darul Ehsan, Malaysia.

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Please send us your enquiry and allow us to advise you. Special designs on request.
The pressure has always been indicated as overpressure. Mankenberg reserves the right to alter technical specifications without notice.