

# Bleeding and Venting Valves

## Continuous Bleeding and Venting Valves EB 1.32

### Compact Standard Bleeding Valve

#### Technical Data

Connection G	3/4 x 1/2A
Nominal Pressure PN	16
Operating Pressure	0 - 16
Flow Rate	5,9 m <sup>3</sup> /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; venting may be prevented by fitting a non-return valve.

The EB 1.32 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 featuring excellent corrosion resistance. The valve cone is fitted with a soft seal.

Top and bottom sections of the valve body are connected by a clamp ring and two bolts. Servicing/maintenance is easy and does not call for special tooling.

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
- » plastic coating for corrosive fluids
- » non-return valve to prevent venting
- » special connections: Aseptic, ANSI or DIN flanges, welding spigots; other connections on request
- » special versions on request

Please state working pressure range when enquiring or ordering.

Operating instructions, know how and safety instructions must be observed. All the pressure has always been indicated as overpressure. We reserve the right to alter technical specifications without notice.



#### Pressure Ranges [bar]

0 - 2	0 - 6	0 - 16
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#### Flow Rate [Nm<sup>3</sup>/h]

Δp bar	pressure range 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

The quoted flow volumes apply to a fully open valve i.e. in start-up condition at 0 °C and 1013 mbar. With continuous bleeding e.g. of filter vessels, the maximum flow volume is 30 % less on average.

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### Materials

Design	standard	ozone resistant
Temperature	130 °C	80°C
Body	CrNiMo-steel	CrNiMo-steel
Body Seal	EPDM	FPM
Internals	CrNiMo-steel	CrNiMo-steel
Float	CrNiMo-steel	CrNiMo-steel
Valve Seal	FPM	CSM
Profile Clamp	CrNiMo-steel	CrNiMo-steel

### Dimensions[mm]

Size	inlet female G 3/4, outlet male G 1/2 A
B	27
C	135
D	140

size A tolerance  $\pm 4$  mm

### Weights [kg]

0.8
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### Zolltarifnummer

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Special designs on request.

The pressure has always been indicated as overpressure.

Mankenberg reserves the right to alter or improve the designs or specifications of the products described herein without notice.

### Dimensional Drawing

