

# Bleeding and Venting Valves

## Combined Bleeding and Venting Valves EB 1.57

with integrated vacuum breaker



### Technical Data

Connection DN	100
Nominal Pressure PN	10
Operating Pressure	0 - 10
Flow Rate	190 Nm <sup>3</sup> /h
Temperature	130 °C
Medium	liquids

### Description

Bleeding and venting valves exhaust air or gases from plants or pipelines without requiring external power supply. Under working pressure they operate as continuous bleeding valve, when the system is drained they act as venting valve. If, in case of a pump failure, a considerably larger air quantity is to be put in, an additional vacuum breaker with large seat diameter has been integrated. Owing to its very big and adjustable vacuum breaker, the EB 1.57 is particularly suitable for water engineering plants subject to vacuum hazards.

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 vacuum breaker has been integrated in a similarly easy way.

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.

### Standard

- » all stainless steel construction
- » quick-release body clamp ring
- » integrated vacuum breaker with large seat diameter, protective cap and screen

### Options

- » ozone-resistant design
- » various seal materials suitable for your medium
- » rubber or plastic coating for corrosive fluids
- » special connections:  
Aseptic, ANSI or JIS flanges, welding spigots; other connections on request
- » special versions on request

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.



### Venting Flow Rate [Nm<sup>3</sup>/h] at 0 °C and 1013 mbar

Δp bar	pressure range bar *		
	0 - 2	0 - 6	0 - 10
0.1	29	11	8
0.2	41	16	12
0.5	65	25	19
1	119	45	34
2	178	67	51
4		112	86
6		158	121
8			156
10			190

#### \* Please note:

Smaller seat diameter for higher pressure range. If the selected working pressure range is too high, the flow volume may be inadequate.

### Vacuum Bleeding [m<sup>3</sup>/h] at Δp 0.2 bar

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Materials	
Body	CrNiMo-steel
Body Seal	EPDM
Internals	CrNiMo-steel
Float	CrNiMo-steel
Valve Seal Bleeding Valve	EPDM
Valve Seal Vacuum Breaker	EPDM
Profile Clamp	CrNiMo-steel

Dimensions [mm]	
size	nominal diameter
	DN 100
A	232
B	151
C	542
D	220
E	263

Weights [kg]	
nominal diameter	
	DN 100
	9

Customs Tariff Number
84818059

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

