

# Bleeding and Venting Valves

## Combined Bleeding and Venting Valves EB 1.59



Valve with Integrated Vacuum Breaker

### Technical Data

Connection DN	100
Nominal Pressure PN	10
Operating Pressure	0 - 10 bar
Flow Rate	62 Nm <sup>3</sup> /h
Temperature	60 °C
Medium	liquids

### Description

If, for instance in the case of a pump failure, much larger quantities of air are fed into the pipe, an additional vacuum breaker with a large seat diameter is integrated. EB 1.59 is therefore particularly suitable for water-technological plants subject to vacuum hazards.

EB 1.59 is a float-controlled venting and bleeding system with preset vacuum bleeding, operating with spring load and cone seal. The valve seats are sealed with soft gaskets. The valve is made completely of deep-drawn stainless steel with outstanding corrosion-resistance qualities and smooth, easy-to-clean surfaces. A robust and frost-proof design for external use.

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.

### Standard

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

### Options

- » ozone-resistant design
- » various seal materials suitable for your medium
- » rubber or plastic coating for corrosive fluids
- » 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.



### Bleeding 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	14	6.4	4.1
0.2	20	9	5.7
0.5	31	13	8.9
1	39	17	11
2	59	26	16
4		44	28
6		61	39
8			50
10			62

#### \* 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 Venting [m<sup>3</sup>/h] at Δp 0,125 bar

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

Dimensions [mm]	
size	nominal diameter
	DN 100
A	165
B	120
C	310
D	220

Weights [kg]	
nominal diameter	
DN 100	
	7.75

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

