

# Bleeding and Venting Valves

## Combined Bleeding and Venting Valves EB 1.84

Combined Valve for Dirty or Waste Water



### Technical Data

Connection DN	50 - 150
Nominal Pressure PN	10 - 16
Operating Pressure	up to 16 bar
Flow Rate	1.100 Nm <sup>3</sup> /h
Temperature	60 °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 1.84 bleeding/venting valve is a combined start-up/continuous bleeding/venting valve with float control for waste water and effluents as well as foaming media. The enlarged float chamber prevents contact between the dirty water and the upper part of the closing mechanism. It is manufactured from deep-drawn stainless steel featuring 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. Servicing/maintenance is easy and does not call for special toolin

During start-up a large volume of air is bled at low pressure via a large valve cone. When the bleed valve is closed and small air volumes have to be bled during continuous operation, an additional smaller cone in the valve opens and bleeds these smaller volumes. The large cone will not open until the liquid level and the pressure drops. The valve opens immediately if a vacuum forms. **The minimum pressure required for valve sealing is 0.2 bar.**

### Standard

- » All stainless steel construction
- » Quick-release body clamp ring
- » Outlet with tube  $\varnothing$  58 x 2 mm (DN 50) / 90 x 2,5 mm (DN 65 - 150)
- » Operating pressure 0 - 10 bar

### Options

- » Operating pressure 0 - 16 bar
- » Flushing connection
- » Various seal materials suitable for your medium
- » Plastic coating for corrosive fluids
- » Non-return valve to prevent venting
- » 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.



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

	$\Delta P$ bar	nominal diameter DN				
		50	65	80	100	150
start-up bleeding	0.05	113		400		430
	0.1	159		560		610
	0.2	225		790		860
	0.3	276		970		1100
continuous bleeding	1	11		25		25
	2	16		38		38
	4	28		63		63
	6	39		88		88
	8	50		114		114
	10	62		140		140
venting	0.1	150		530		580
	0.2	200		710		780
	0.3	230		810		890
	0.4	245		870		950

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Materials	
Body	CrNiMo-steel
Body Seal	EPDM
Internals	CrNiMo-steel
Float	CrNiMo-steel
Valve Seal	EPDM
Prifile Clamp	CrNiMo-steel

Dimensions [mm]					
size	nominal diameter DN				
	50	65	80	100	150
A*	470	518	500	500	518
B*	175	217	217	217	217
C	515	575	555	555	575
D	265/ø 210	265/ø 210	265/ø 210	265/ø 210	ø 285

\* Overall length tolerances in acc. with DIN EN 558

Weights [kg]					
nominal diameter DN					
50	65	80	100	150	
15	20	21	21	22	

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

