

# Bleeding and Venting Valves

## Combined Bleeding and Venting Valves EB 1.84



Combined Valve for Dirty or Waste Water

### Technical Data

Connection DN	50 - 100
Nominal Pressure PN	10
Operating Pressure	0 - 6 bar
Flow Rate	970 Nm <sup>3</sup> /h
Temperature	40 °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. 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.

The EB 1.84 is a float-controlled bleeding/venting valve 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

### Standard

- » all stainless steel construction
- » quick-release body clamp ring

### Options

- » 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 DIN 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

	ΔP bar	nominal diameter DN			
		50	65	80	100
start-up bleeding	0.05	113		396	
	0.1	159		560	
	0.2	225		790	
	0.3	276		970	
continuous bleeding	1	11		25	
	2	16		38	
	4	28		63	
	6	39		88	
	8	50		114	
venting	0.1	150		530	
	0.2	200		710	
	0.3	230		810	
	0.4	245		870	

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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			
	50/50	65/65	80/65	100/65
A	762	930	940	905
B	175	235	235	235
C	805	1010	1020	985
D	166	275	275	275

### Weights [kg]

nominal diameter DN				
	50	65	80	100
	17.5	41	41	42

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

