

# Bleeding and Venting Valves EB 3.50

## Start-up Bleeding and Venting Valves

Valve for Very Large Air Volumes



### Technical Data

Connection DN	100 - 300
Nominal Pressure PN	40
Durchsatz	10708 Nm <sup>3</sup> /h
Temperature	130 °C
Medium	liquids

### Description

Start-up bleed valves remove air or gases from systems or pipelines during the filling process without requiring an external energy input. When a system is drained they act as venting valves; venting may be prevented by fitting a commercial check valve to the outlet.

Thanks to the large cross-sectional area of the seat these valves are capable of handling large air volumes at low pressures. They close as soon as the system is filled with fluid. When the liquid level drops these valves will only open if the system is depressurised; they will not open under working pressure.

EB 3.50 is a float-controlled start-up bleed valve. Its body is made of steel whilst the internal components are manufactured from stainless steel featuring excellent corrosion resistance. The float is precisely guided in the outlet spigot. The valve cone is fitted with a soft seal. The minimum pressure required for valve sealing is 0.3 bar. If small air volumes have to be bled during continuous operation, a dual bleed valve should be used.

### Options

- » various seal materials suitable for your medium
- » rubber or 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		
	100	125	150
0.05	971	1604	2236
0.1	1374	2268	3162

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

Δp bar	nominal diameter DN		
	200	250	300
0.05	3948	5783	7572
0.1	5583	8178	10708

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### Materials

Body	steel
Body Seal	Nova Universal
Internals	CrNi-steel, CrNiMo-steel
Float	CrNiMo-steel
Valve Seal	EPDM

### Dimensions [mm]

PN	size	nominal diameter DN					
		100	125	150	200	250	300
6	A	620	620	750	860	1010	1030
	D	440	440	540	645	755	755
10	A	625	625	760	870	1020	1050
	D	445	445	565	670	780	780
16	A	625	625	760	870	1020	1060
	D	460	460	580	715	840	840
25	A	650	650	790	910	-	-
	D	485	485	620	730	-	-
40	A	650	650	790	930	-	-
	D	515	515	660	755	-	-

### Weights [kg]

PN	nominal diameter DN					
	100	125	150	200	250	300
6	70	73	on request			
10	70	73				
16	81	84				
25	110	115				
40	165	170				

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

