

## LEVEL CONTROL

# Bleeding and venting valve EB 3.50

Start-up bleeding valve for high to very high flow rates



### Technical data

Connection DN	100 - 200
Nominal pressure PN	6 - 40
Operating pressure	0.3 - 16 bar
Flow rate	18550 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

- » Version suitable for temperatures up to 200°C
- » Connection DN 25 - 80
- » Various seal materials suitable for your medium
- » Rubber or plastic coating for corrosive fluids
- » non-return valve to avoid venting
- » Special connections: Aseptic, ANSI or JIS flanges, welding ends, other connections on request
- » Special versions on request

### Product



Picture similar

### Technical specification

#### Start-up bleeding air flow rate [Nm<sup>3</sup>/h] at 0 °C, 1013 mbar

Δp bar	nominal diameter DN			
	100	125	150	200
0,05	971	1604	2236	3948
0,1	1374	2268	3162	5583
0,2	1940	3210	4470	7900
0,3	2380	3930	5480	9670

#### Pressure ranges [bar]

PN	nominal diameter DN			
	100	125	150	200
6	0.3 - 6			
10	0.3 - 10			
16	0.3 - 16			0.3 - 13
25	0.3 - 21		0.3 - 16	0.3 - 13
40	0.3 - 21		0.3 - 16	0.3 - 13

#### Venting air flow rate [Nm<sup>3</sup>/h] at 0 °C, 1013 mbar

Δp bar	nominal diameter DN			
	100	125	150	200
0,05	1300	2150	3000	5300
0,1	1740	2870	4000	7060
0,2	1990	3290	4580	8090
0,3	2130	3515	4900	8650

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## Materials

Materials*	
body	steel (optional stainless steel)
body seal	Nova Universal
internals	stainless steel
float	stainless steel
valve seal	EPDM

\*All materials equal or of higher quality

## Dimensions and weights

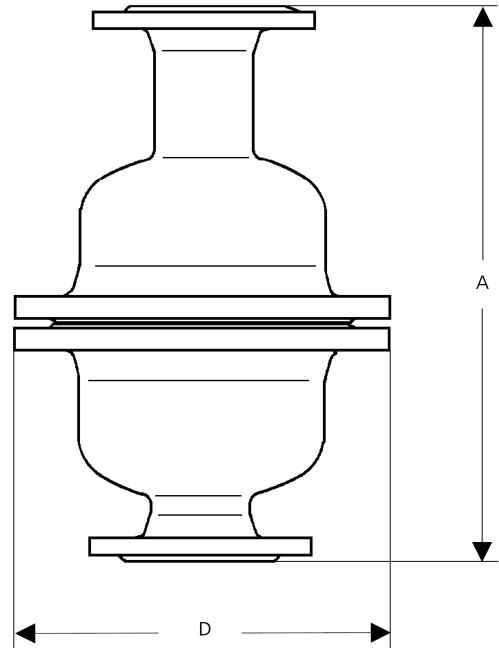
Dimensions [mm]				
PN	size	nominal diameter DN		
		100	125	150
6	A*	620	620	750
	D	440	440	540
10	A*	625	625	760
	D	445	445	565
16	A*	625	625	760
	D	460	460	580
25	A*	650	650	790
	D	485	485	620
40	A*	650	650	790
	D	515	515	660

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

Weights [kg]				
PN	nominal diameter DN			
	100	125	150	200
6	70	73	on request	
10	70	73		
16	81	84		
25	110	115		
40	165	170		

### Customs tariff number

84818059



### Authorised Distributor:



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Please send us your enquiry and allow us to advise you. Special designs on request.  
The pressure has always been indicated as overpressure. Mankenberg reserves the right to alter technical specifications without notice.