

## LEVEL CONTROL

# Bleeding and venting valve EB 6.54

Combined bleeding valve for small to very high flow rates

# MANKENBERG

### Technical data

Connection DN	25 - 300
Nominal pressure PN	6 - 40
Operating pressure	0.3 - 40 bar
Flow rate	18550 Nm <sup>3</sup> /h
Temperature	130 °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. EB 6.54 is a float-controlled combined start-up and continuous bleeding and venting valve consisting of a main valve for start-up bleed and a continuous bleeding and venting valve built-on laterally. The valve cone is provided with a soft seal, and the minimum pressure for the valve seal is to be 0.3 bar. Owing to the large seat diameter, large air volumes are discharged at low pressures. The main valve closes as soon as having been filled with liquid. With additional small air quantities accruing during continuous operation, the continuous bleeding and venting valve opens and discharges the accruing air. The main valve only opens with falling level and simultaneous pressure relief. If a vacuum arises the valve will open immediately. Depending on the version the start-up bleeding valves EB 3.50 (PN 6-40) or EB 3.52 (PN 16) can be employed as main valve and for continuous bleeding and venting the types EB 1.12 or EB 1.32 with a nominal width of G 3/4 x 1/2 can be used. Details concerning materials and dimensions can be found on the corresponding data sheets.

### Standard

- » EB 3.52 up to DN 100 completely made of stainless steel

### Options

- » 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

For more information see the attachment.

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### Materials

Depending on the version the start-up bleeding valves EB 3.50 (PN 6-40) or EB 3.52 (PN 16) can be employed as main valve and for continuous bleeding and venting the types EB 1.12 or EB 1.32 with a nominal width of G 3/4 x 1/2 can be used.

Details concerning materials and dimensions can be found on the corresponding data sheets.

### Dimensions and weights

Depending on the version the start-up bleeding valves EB 3.50 (PN 6-40) or EB 3.52 (PN 16) can be employed as main valve and for continuous bleeding and venting the types EB 1.12 or EB 1.32 with a nominal width of G 3/4 x 1/2 can be used.

Details concerning dimensions can be found on the corresponding data sheets.

#### Customs tariff number

84818059

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## Flow rate

### Air flow rate for start-up bleeding [Nm³/h] with EB 3.52 basis

Δp bar	nominal diameter DN						
	25	32	40	50	65	80	100
0.05	52	90	125	217	378	543	790
0.1	73	126	177	307	534	767	1117
0.2	104	178	250	435	755	1085	1580
0.3	127	219	306	532	925	1330	1935

### Air flow rate for start-up bleeding [Nm³/h] with EB 3.50 basis

Δp bar	nominal diameter DN					
	100	125	150	200	250	300
0.05	971	1604	2236	3948	5783	7572
0.1	1374	2268	3162	5583	8178	10708
0.2	1940	3210	4470	7900	11570	1510
0.3	2380	3930	5480	9670	14165	18550

### Air flow continuous bleeding [Nm³/h] EB 1.12 or EB 1.32, G 3/4

Δp bar	Pressure ranges bar *		
	0 - 2	0 - 6	0 - 16
0.1	3.1	1	0.3
0.2	4.4	1.4	0.4
0.5	6.8	2.2	0.6
1	8.6	2.8	0.7
2	12	4.2	1
4		7	1.7
6		9.8	2.4
8			3.1
10			3.8
12			4.5
16			5.9
> 16	on request		

### Air flow rate for venting [Nm³/h] with EB 3.52 basis

Δp bar	nominal diameter DN						
	25	32	40	50	65	80	100
0.1	69	120	167	291	507	728	1060
0.2	93	160	223	390	675	970	1410
0.3	106	183	255	445	775	1110	1620
0.4	114	195	2758	475	825	1185	1730

### Air flow rate for venting [Nm³/h] EB 3.50 basis

Δp bar	nominal diameter DN					
	100	125	150	200	250	300
0.1	1300	2150	3000	5300	7760	10160
0.2	1740	2870	4000	7060	10345	13545
0.3	1990	3290	4580	8090	11850	15520
0.4	2130	3515	4900	8650	12670	16590

**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.