

# Bleeding and Venting Valves

## Startup Bleeding and Venting Valves EB 3.52



Universal Valve

### Technical Data

Connection DN	25 - 100
Nominal Pressure PN	16
Operating Pressure	0 - 13 bar
Flow Rate	1935 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 3.52 is a float-controlled start-up bleed valve manufactured completely from deep-drawn stainless steel components 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.

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 tooling.

### Standard

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

### Options

- » working pressure up to 16 bar
- » 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.



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

$\Delta p$ 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

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

$\Delta p$ 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	275	475	825	1185	1730

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

Dimensions [mm]							
size	nominal diameter DN						
	25	32	40	50	65	80	100
A	247	255	257	261	430	440	440
D	200	200	200	200	265	265	265
E	45	45	35	35	-	-	-

Weights [kg]							
nominal diameter DN							
25	32	40	50	65	80	100	
4.5	6	6.5	8.5	15	16	18	

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

