Bleeding and Venting Valves

Startup Bleeding and Venting Valves EB 3.50

Valve for Very Large Air Volumes

BOISWOOD
GAS AND LIQUID CONTROL TECHNOLOGIES
Pressure & Vacuum
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Custom Services

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Technical Data

Connection DN	100 - 300
Nominal Pressure PN	40
Flow Rate	10708 Nm^3/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 fro 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

- special version up to 200 °C
- nominal diameter DN 25 - 80
- 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 JIS 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 Venting Air Flow Rate [Nm^3/h] bei 0 °C, 1013 mbar

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	15150
0,3	2380	3930	5480	9670	14165	18550

Bleeding Air Flow Rate [Nm^3/h] bei 0 °C, 1013 mbar

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

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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	-	-

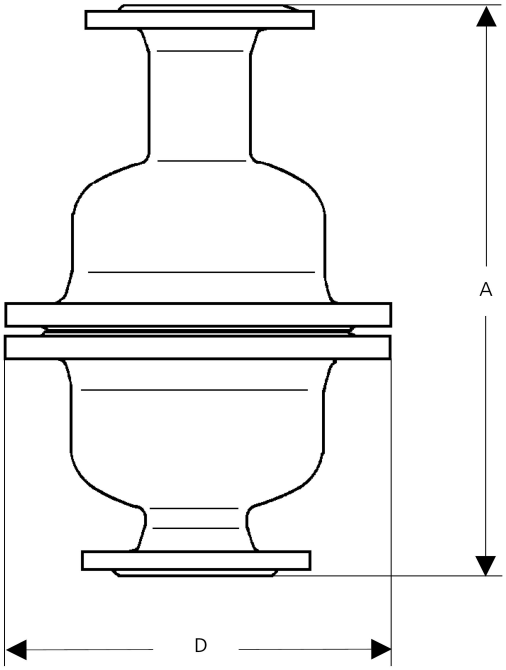
Weights [kg]

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				

Customs Tariff Number
84818059

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



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