Bleeding and Venting Valves

Combined Bleeding and Venting Valves EB 1.75

Epoxy-coated Cast Valve for water

Technical Data

Connection DN	50 - 200
Connection G	1 + 2
Nominal Pressure PN	16 - 40
Operating Pressure	0.3 - 40 bar
Flow Rate	venting up to 7600 Nm³/h bleeding up to 6100 Nm³/h Working venting up to 33 Nm³/h
Temperature	60 °C
Medium	water

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.

EB 1.75 is a combined start-up and continuous bleeding and venting valve with float control. During start-up a large quantity of air is removed at low pressure via a large cone. If the ventilator is closed and further small quantities of air occur in continuous operation, a second small cone opens and removes all the air present. The large cone does not open until the level drops and pressure decreases at the same time. In the case of underpressure the valves open immediately. The minimum pressure for the valve seal is 0.3 bar.

EB 1.75 bleeding and venting valves are float-controlled, compact devices for water. The housings are made of spheroidal graphite iron with a continuous epoxy coating. The valve cone is soft-sealed. The minimum pressure for the valve seal is 0.3 bar.

The upper and lower sections of the valve unit are each connected by means of only 4 screws. This means that maintenance work can be performed rapidly and without the need for special tools.

Standard

» body made of spheroidal graphite iron with an epoxy coating
» float made of PP

Options

» purging connection in stainless steel
» without continuous venting
» anti-shock system
» degassing connection designed as a plastic manifold for specific removal of exhaust air
» special designs 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.

Flow Rate in Nm³/h see sheet EB 1.75/2.1.....3

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Materials	
Body	spheroidal cast iron epoxy coated
Body Seal	NBR
Internels	stainless steel
Float	PP
Valve Seal	NBR
Drain Valve	stainless steel

Dimensions [mm]

size	nominal diameter								
	1"	2"	50	65	80	100	150R	150	200
A	113	142	142	142	174	217	217	325	325
B	205	260	275	275	300	350	425	490	490
C	-	-	165	185	205	235	300	300	375
D	CH45	CH75	-	-	-	-	-	-	-

Weights with cap [kg]

nominal diameter								
1"	2"	50	65	80	100	150R	150	200
3.2	6.2	8.6	9	12.4	19.7	33	56	58

Dimensions with manifold [mm]

Maß	Nennweite								
	1'	2'	50	65	80	100	150R	150	200
A	95	118	118	118	140	176	218	261	333
B	290	395	395	395	450	550	600	660	720
C	-	-	165	185	205	235	300	300	375
D	CH45	CH75	-	-	-	-	-	-	-

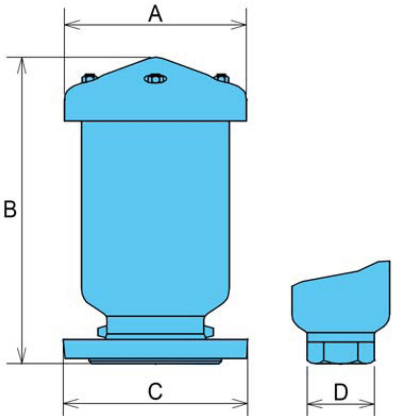
Wheights with manifold [kg]

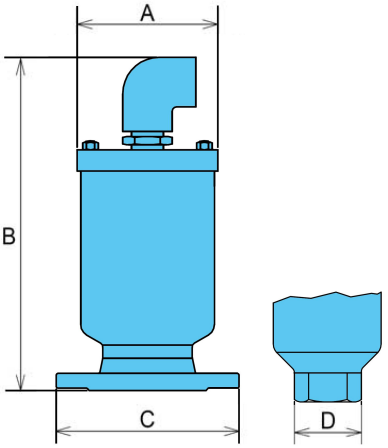
Nennweite								
1'	2'	50	65	80	100	150R	150	200
3.3	6.1	8.1	8.6	11.1	18.5	34.5	49	54

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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Air Flow Rate Nm³/h at 0 °C, 1013 mbar for standard design

	ΔP bar	nominal diameter G	
		1	2
bleeding	0,05	50	250
	0,1	100	500
	0,3	250	750
start-up venting	0,05	50	250
	0,1	100	500
	0,3	250	1000
continuous venting	2	2,5	2,5
	6	3,5	3,5
	8	6,5	6,5
	10	7	7
	16	8	8

Air Flow Rate Nm³/h bei 0 °C, 1013 mbar for standard design

	ΔP bar	nominal diameter DN						
		50	65	80	100	150R	150	200
bleeding	0,05	250	250	1000	1500	2100	3000	3000
	0,1	500	500	1500	2000	3000	4200	4200
	0,3	750	750	2000	2900	4400	6100	6100
start-up venting	0,05	250	250	1000	1500	2100	3000	3000
	0,1	500	500	1500	2100	3000	4500	4500
	0,3	1000	1000	2000	3600	5400	7600	7600
continuous venting	2	2,5	2,5	3	3	3	3,5	3,5
	6	3,5	3,5	7	7	7	10	10
	8	6,5	6,5	12	12	12	19	19
	10	7	7	14	14	14	22	22
	16	8	8	21	21	21	33	33
40				15				

Air Flow Rate Nm³/h at 0 °C, 1013 mbar for anti-hammer system

	ΔP bar	nominal diameter G	
		1	2
bleeding	0,05	60	200
	0,1	100	270
	0,3	150	500
start-up venting	0,05	4,5	7
	0,1	6	11
	0,3	12	20
continuous venting	2	2,5	2,5
	6	3,5	3,5
	8	6,5	6,5
	10	7	7
	16	8	8

Air Flow Rate Nm³/h at 0 °C, 1013 mbar for anti-hammer system

	ΔP bar	nominal diameter DN						
		50	65	80	100	150R	150	200
bleeding	0,05	200	200	370	670	1050	1600	1600
	0,1	270	270	550	950	1500	2300	2300
	0,3	500	500	950	1600	2600	4000	4000
start-up venting	0,05	7	7	15	20	27	38	38
	0,1	11	11	20	30	39	50	50
	0,3	20	20	40	53	70	94	94
continuous venting	2	2,5	2,5	3	3	3,5	3,5	3,5
	6	3,5	3,5	7	7	10	10	10
	8	6,5	6,5	12	12	19	19	19
	10	7	7	14	14	22	22	22
	16	8	8	21	21	33	33	33

Special designs on request.
The pressure has always been indicated as overpressure.
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The quoted flow volumes apply to a fully open valve i.e. in start-up condition at 0 °C and 1013 mbar.