

Triple functions air valve type "D" 4000 - 6000 - 9000

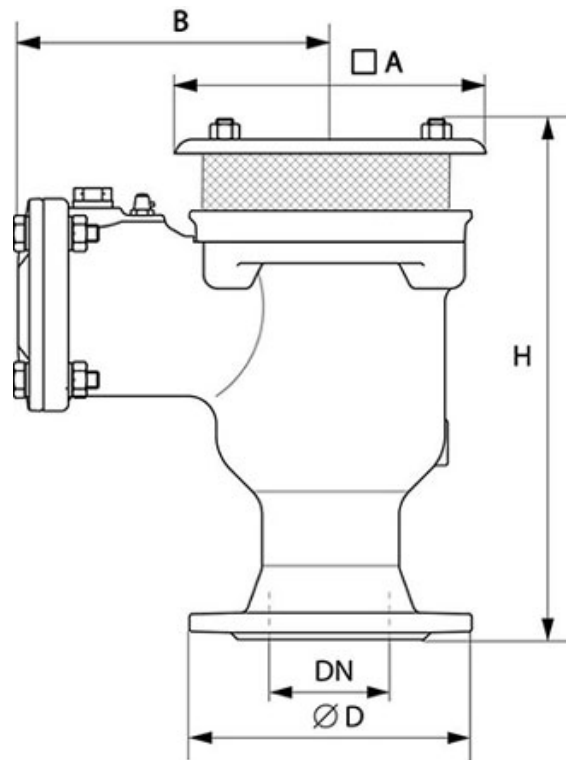


Low and high pressure air relief valve (double effect): the device evacuates great air amounts during the filling of the main, allows the inlet of great air amounts (in order to avoid a vacuum effect) during the emptying of the main and evacuates small air amounts that are accumulated in the high points of the main during normal working conditions

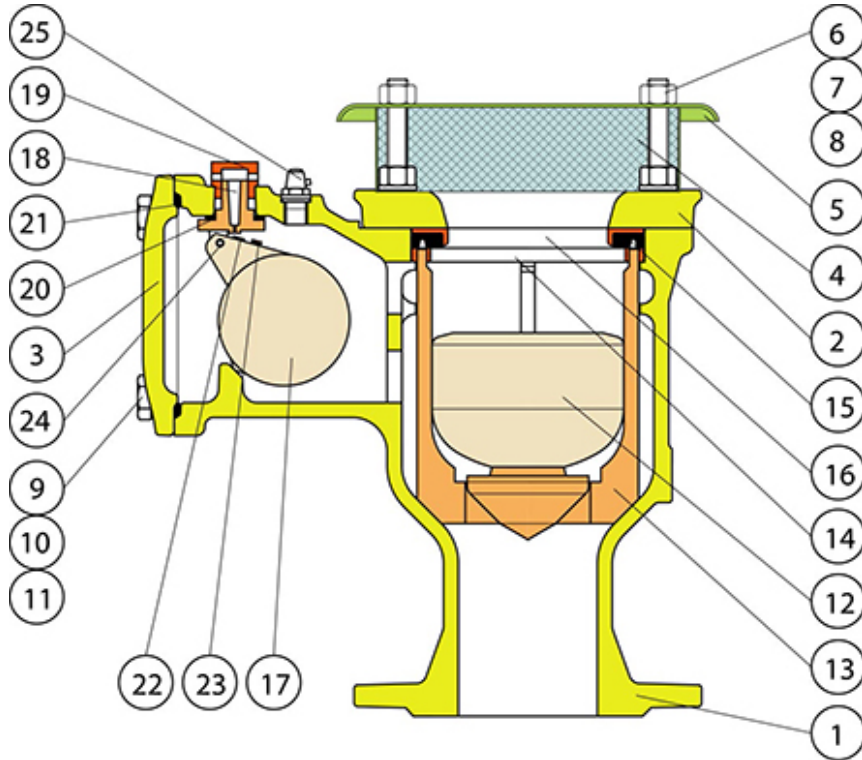
Type	Version	PFA	Flange drilled (mm)	Flange PN	D (mm)	A (mm)	B (mm)	H (mm)	Mass (kg)	References
4000 D	Standard	16 bar	40/50/60/65	10 - 16	185	150	198	275	15.00	RCA60DSAH
4000 D	Standard	25 bar	40/50	10 - 25	185	150	198	275	15.00	RCA50SDSH
4000 D	Standard	25 bar	60 et 65	25	185	150	198	275	15.00	RCA60DSDH
6000 D	Standard	16 bar	80	10 - 25	200	220	222	370	25.00	RCA80DSAH
6000 D	Standard	25 bar	80	10 - 25	200	220	222	370	25.00	RCA80DSDH
9000 D	Standard	16 bar	100	10 - 16	235	270	250	460	38.00	RCB10DSAH
9000 D	Standard	25 bar	100	25	235	270	250	460	38.00	RCB10DSDH
9000 D	Standard	16 bar	150	10 - 16	300	270	250	460	43.00	RCB15DSAH
9000 D	Standard	25 bar	150	25	300	270	250	460	42.00	RCB15DSDH
4000 D	Reinforced	16 bar	40. 50. 60 et 65	10 - 16	185	150	198	275	15.00	203997
4000 D	Reinforced	25 bar	50	10 - 25	185	150	198	275	15.00	234125
4000 D	Reinforced	25 bar	60 et 65	25	185	150	198	275	15.00	*
6000 D	Reinforced	16 bar	80	10 - 25	200	220	222	370	25.00	203998
6000 D	Reinforced	25 bar	80	10 - 25	200	220	222	370	25.00	*
9000 D	Reinforced	16 bar	100	10 - 16	235	270	250	460	38.00	203999
9000 D	Reinforced	25 bar	100	25	235	270	250	460	38.00	230607

Type	Version	PFA	Flange drilled (mm)	Flange PN	D (mm)	A (mm)	B (mm)	H (mm)	Mass (kg)	References
9000 D	Reinforced	16 bar	150	10 - 16	300	270	250	460	40.00	204000
9000 D	Reinforced	25 bar	150	25	300	270	250	460	42.00	230426

(*) consult us



Material and coating



Standard version

Item	Quantity	Description	Material	Coating
1	1	Body	Ductile iron FGS 400/15 or 500-7	Blue epoxy 250 microns
2	1	Upper flange	Ductile iron FGS 400/15 or 500-7	Blue epoxy 250 microns
3	1	Cover	Ductile iron FGS 400/15 or 500-7	Blue epoxy 250 microns
4	1	Protection grid	Stainless steel A2	
5	1	Cover	Stainless steel A2	
6	4	Threaded bar	Stainless steel A2	
7	8	Nut	Stainless steel A2	
8	4	Washer	Stainless steel A2	
9	4	Screw	Stainless steel A2	
10	4	Nut	Stainless steel A2	
11	4	Washer	Stainless steel A2	
12	1	Float	ABS	

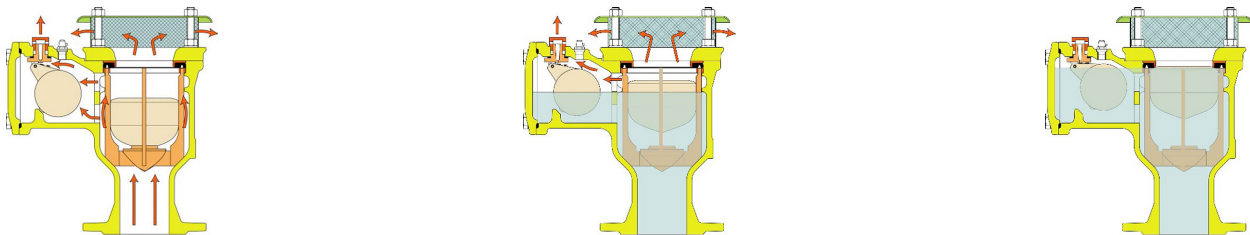
Item	Quantity	Description	Material	Coating
13	1	Float guide	ABS	
14	1	Ring	ABS	
15	1	Gasket seat	ABS	
16	1	Lip seal	EPDM	
17	1	Float	ABS	
18	1	Nozzle	PA6.6 Polyamide	
19	1	Nut	ABS	
20	1	Gasket	EPDM 55	
21	1	O-ring	EPDM 55	
22	1	Gasket	EPDM 55	
23	1	Adjusting screw	Stainless steel A2	
24	1	Pin	Stainless steel	
25	1	Air valve	Brass	

Reinforced version

Item	Quantity	Description	Material	Coating
1	1	Body	Ductile iron FGS 400/15 or 500-7	Blue epoxy 300 microns
2	1	Upper flange	Ductile iron FGS 400/15 or 500-7	Blue epoxy 300 microns
3	1	Cover	Ductile iron FGS 400/15 or 500-7	Blue epoxy 300 microns
4	1	Protection grid	Stainless steel A4	
5	1	Cover	Stainless steel A4	
6	4	Threaded bar	Stainless steel A4	
7	8	Nut	Stainless steel A4	
8	4	Washer	Stainless steel A4	
9	4	Screw	Stainless steel A4	
10	4	Nut	Stainless steel A4	
11	4	Washer	Stainless steel A4	
12	1	Float	ABS	
13	1	Float guide	ABS	
14	1	Ring	ABS	
15	1	Gasket seat	ABS	
16	1	Lip seal	EPDM	

Item	Quantity	Description	Material	Coating
17	1	Float	ABS	
18	1	Nozzle	PA6.6 Polyamide	
19	1	Nut	ABS	
20	1	Gasket	EPDM 55	
21	1	O-ring	EPDM 55	
22	1	Gasket	EPDM 55	
23	1	Adjusting screw	Stainless steel A4	
24	1	Pin	Stainless steel	
25	1	Air valve	Brass	

Kinetic principle



1- Pipeline filling

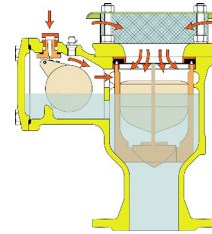
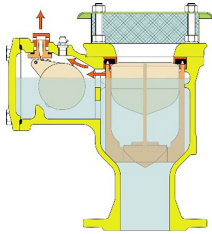
- During the filling of the pipe, the air evacuates, the float remains in low position
- The water fills gradually the air relief valve, under the effect of the Archimedes thrust the edge of the seal ring and the surface of the float allows to have a tightness. The flow of the high orifice pressure being far more weak, it remains a air feeder that evacuates slowly and allows a slow placement in pressure of the valve avoiding eater hammer.
- The unit is in under pressure and orifices of evacuation are sealed.

2- Pipeline degassing

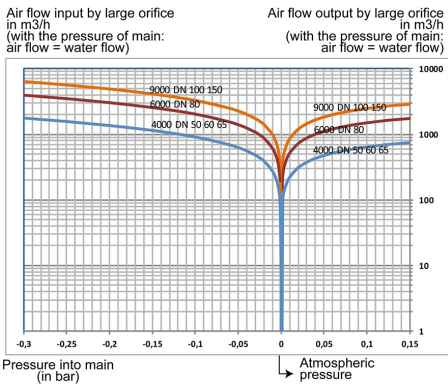
- The air accumulates during the functioning of the pipe. The low pressure float remains in place under the effect of the pressure despite the decline of the level of the water. The air evacuates by the small orifice with the same mechanism that the preceding paragraph 2.

3- Pipeline emptying

- In case of emptying of the network or rupture of the pipe, the low pressure float instantaneously allowing the arrival of air and avoiding the placement in depression of the conduct.



Performances



Air flow large orifice

Air flow small orifice

Constant flow from 1 bar (10MCE)

PFA in Bar (all DN)	16	25
Ø nozzle in mm	2,25	1,75
Air flow in m ³ /h at pipe pressure	2,79	1,69

Hydraulic sealing: sealing wraps to 1.5 PN - sealing low pressure starting from 0.3 bars for small (nozzle) and large openings.

Linked products



Operation and
maintenance instructions
for air valve

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