

**DOUBLE ORIFICE
AIR VALVE**

FIG. 612



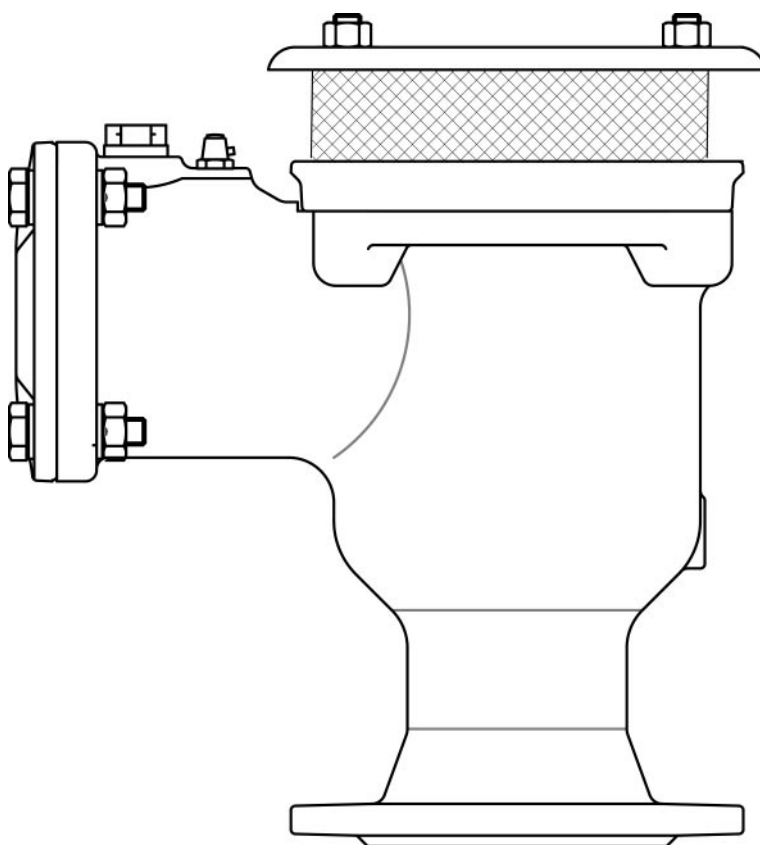
**N° R0 120 E
Date : 09-03- 2007**

**AIR VALVES TYPE
4000D-6000D-9000D**

DOUBLE ORIFICE AIR VALVE

RANGE : DN 50/60/65 - 80 - 100 -150 PN10-16-25

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.



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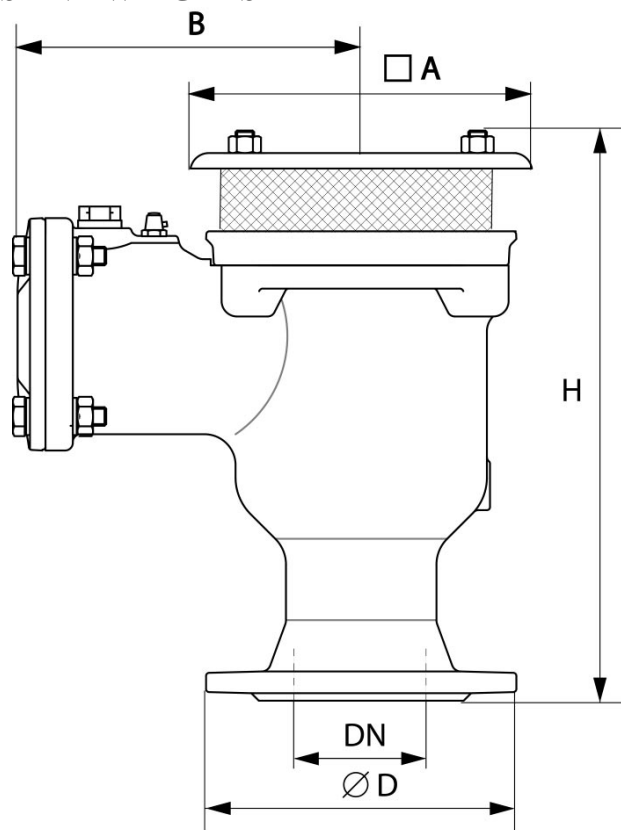


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**AIR VALVES TYPE
4000D-6000D-9000D**

TECHNICAL FEATURES

DIMENSIONS AND WEIGHTS



Type	PFA	DN	Flanges	D	A	B	H	Weight	Number code
4000	16	50 60 65	PN 10-16	185	150	198	275	15	RCA60DSAH
	25	50	PN 25	185	150	198	275	15	RCA50DSDH
	25	60 65	PN 25	185	150	198	275	15	RCA60DSDH
6000	16	80	PN 10-16-25	200	220	222	370	25	RCA80DSAH
	25	80	PN 10-16-25	200	220	222	370	25	RCA80DSDH
9000	16	100	PN 10-16	235	270	250	460	38	RCB10DSAH
	25	100	PN 25	235	270	250	460	38	RCB10DSDH
	16	150	PN 10-16	300	270	250	460	42	RCB15DSAH
	25	150	PN 25	300	270	250	460	42	RCB15DSDH

Dimensions in mm Weight in Kg
Flanges in accordance with Standard ISO 7005

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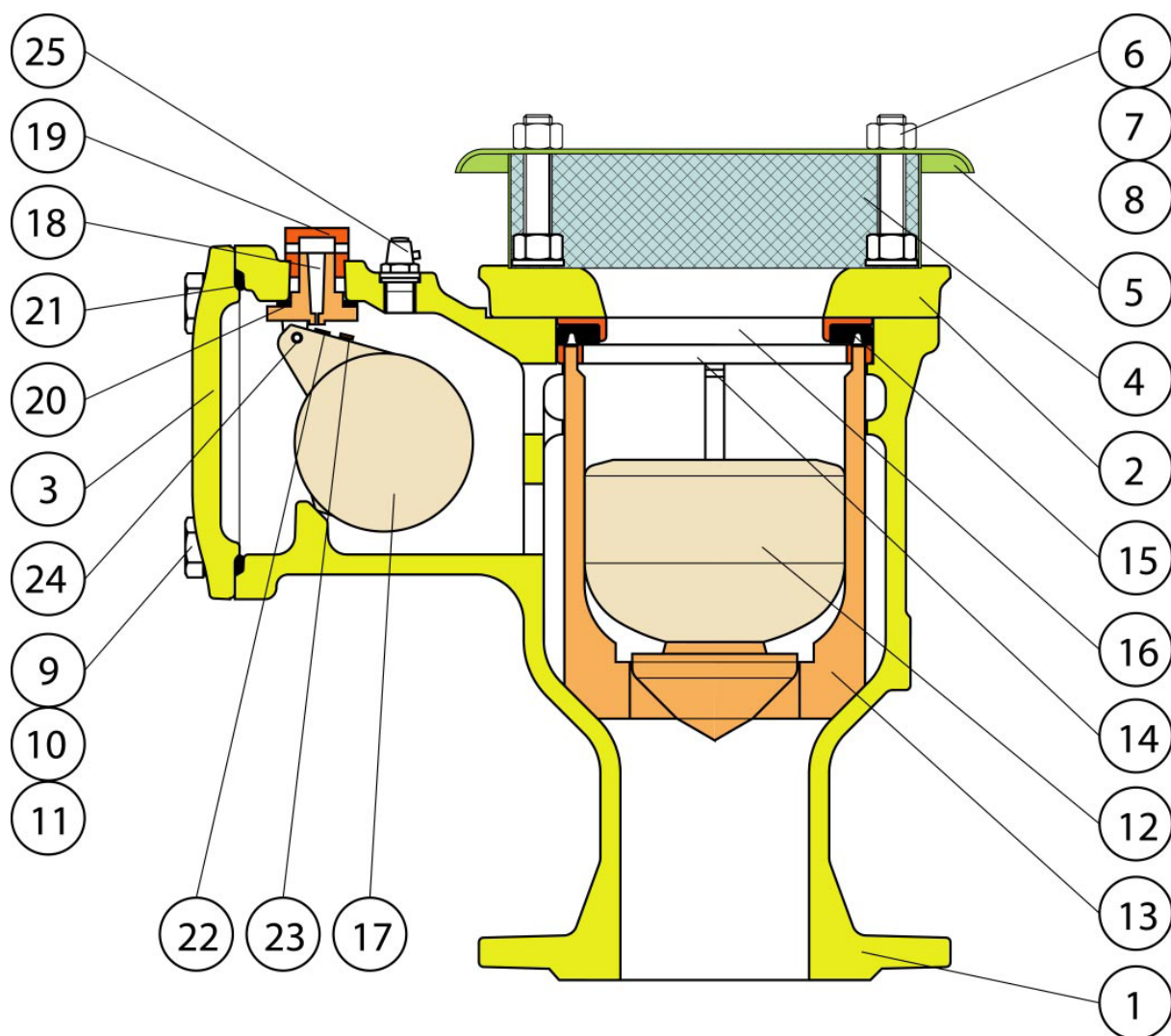


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TECHNICAL FEATURES

MATERIALS



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TECHNICAL FEATURES

MATERIALS

Item	Quantity	Description	Material	Coating
01	01	Body	Ductile iron GS 400-15	Blue epoxy 250 microns
02	01	Upper flange	Ductile iron GS 400-15	
03	01	Cover	Ductile iron GS 400-15	
04	01	Protection grid	Stainless steel AISI 304	
05	01	Cover	Stainless steel AISI 304	
06	04	Threaded bar	Stainless steel AISI 304	
07	08	Nut	Stainless steel A2	
08	04	Washer	Stainless steel A2	
09	04	Screw	Stainless steel A2	
10	04	Nut	Stainless steel A2	
11	04	Washer	Stainless steel A2	
12	01	Float	ABS	
13	01	Float guide	ABS	
14	01	Ring	ABS	
15	01	Gasket seat	ABS	
16	01	Lip seal	EPDM 55	
17	01	Float	ABS	
18	01	Nozzle	PA6.6 Polyamide	
19	01	Nut	ABS	
20	01	Gasket	EPDM 55	
21	01	O-ring	EPDM 55	
22	01	Gasket	EPDM 55	
23	01	Adjusting screw	Stainless steel A2	
24	01	Pin	Stainless steel	
25	01	Air valve	Brass	Chromium

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KINETIC PRINCIPLE

1) PIPELINE FILLING

	<p>During the filling of the pipe, the air evacuates, the float remains in low position.</p>
	<p>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.</p>
	<p>The unit is in under pressure and orifices of evacuation are sealed.</p>

DOUBLE ORIFICE AIR VALVE

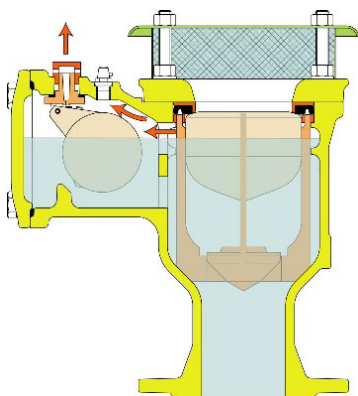
FIG. 612



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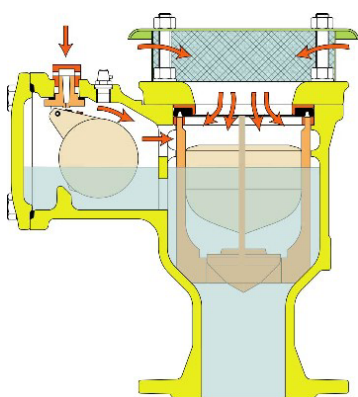
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2) PIPELINE DEGASSING



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 EMPTING



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

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FIG. 612



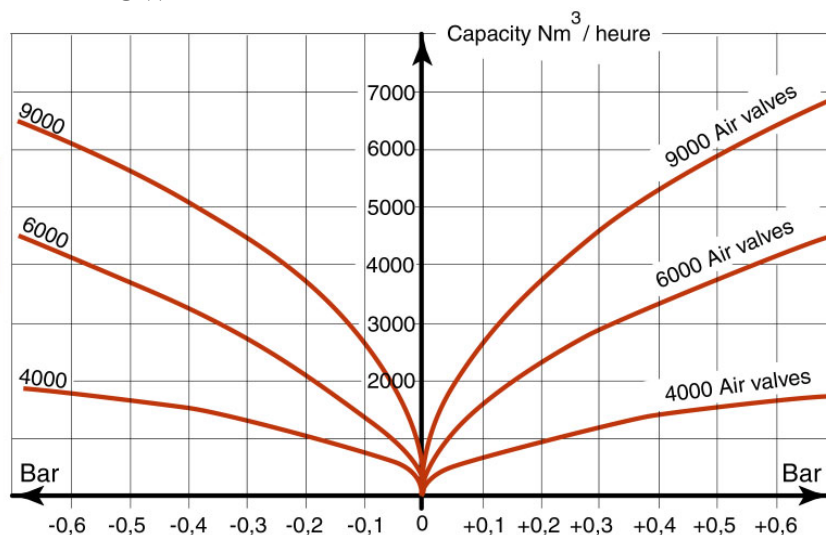
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PERFORMANCES

CAPACITY OF AIR FLOW

LOW PRESSURE
AIR FLOW



HIGH PRESSURE
AIR FLOW

