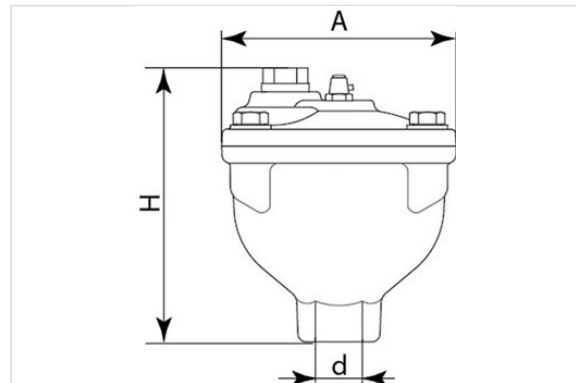


## Automatic degassing Air Valve Type 100

Type 100



Type 100



Air valves available in 4 models: model 100, model 110, model 111, model 112 and model 113

The Automatic Degassing Air Valve is used on pressurized pipes to evacuate the air or a mix of air/water accumulated in the high points of the pipeline during normal duty. It has to be fitted on each track peak, meant as slope changing.

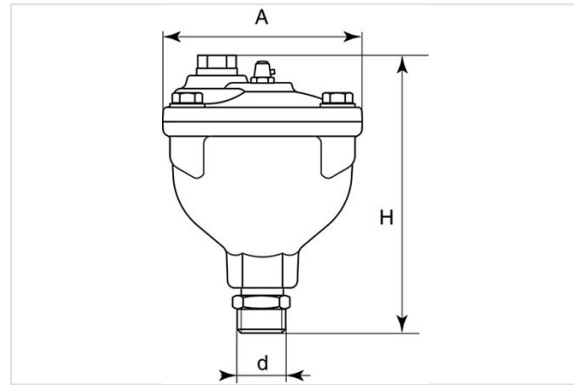
Version	PFA	DN (")	A (mm)	H (mm)	Mass (kg)	References
100	16 bar	¾	138	161	4.50	204001
100	25 bar	¾	138	161	4.50	204003
100	16 bar	1	138	161	5.00	204005
100	25 bar	1	138	161	4.50	204007
110	16 bar	¾	138	184	4.50	RCF07AEA
110	16 bar	1	138	184	4.50	RCF10AEA
110	25 bar	1	138	184	4.50	RCF10AEDH
111	16 bar	¾	138	230.5	4.50	RCF07BAAH
111	25 bar	¾	138	230.5	4.50	RCF07BNDH
111	16 bar	1	138	230.5	4.50	RCF10BNAH
111	25 bar	1	138	230.5	4.50	RCF10BNDH

Version	PFA	DN (mm)	DN (")	D (mm)	A (mm)	H (mm)	Mass (kg)	References
112	16 bar	40/50/60/65	1	186	215	138	7.50	RCA40AFAH

Version	PFA	DN (mm)	DN (")	D (mm)	A (mm)	H (mm)	Mass (kg)	References
112	25 bar	40/50/60/65	1	186	215	138	10.10	RCA40AFDH
112	16 bar	80/100	1	220	218	138	10.00	204010
113	16 bar	40/50/60/65	1	186	262.5	138	8.00	RCA40BTXH
113	25 bar	40/50/60/65	1	186	262.5	138	10.10	RCA40BTCH
113	16 bar	80/100	1	220	265.5	138	10.50	181190
113	25 bar	80	1	220	265.5	138	11.00	204009
113	25 bar	100	1	235	265.5	138	12.00	181597



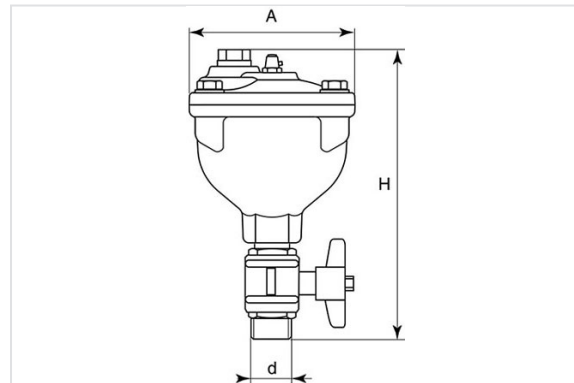
Type 110



Type 110



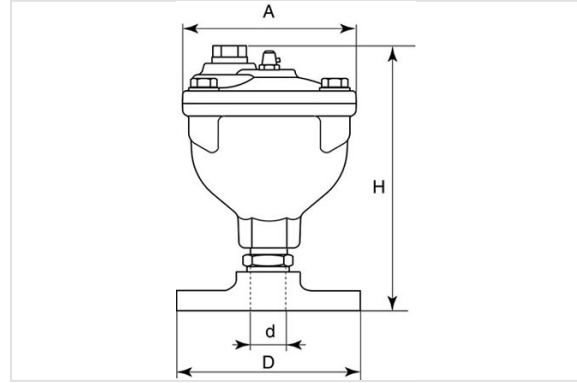
Type 111



Type 111



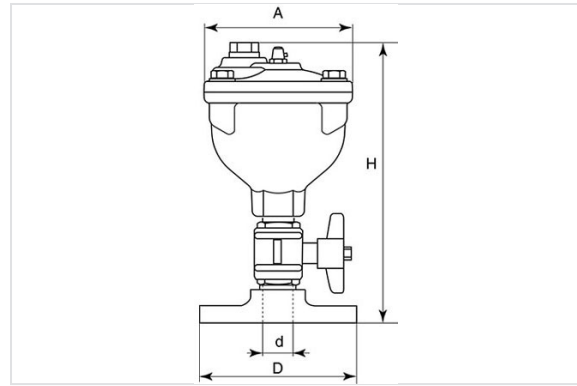
Type 112



Type 112

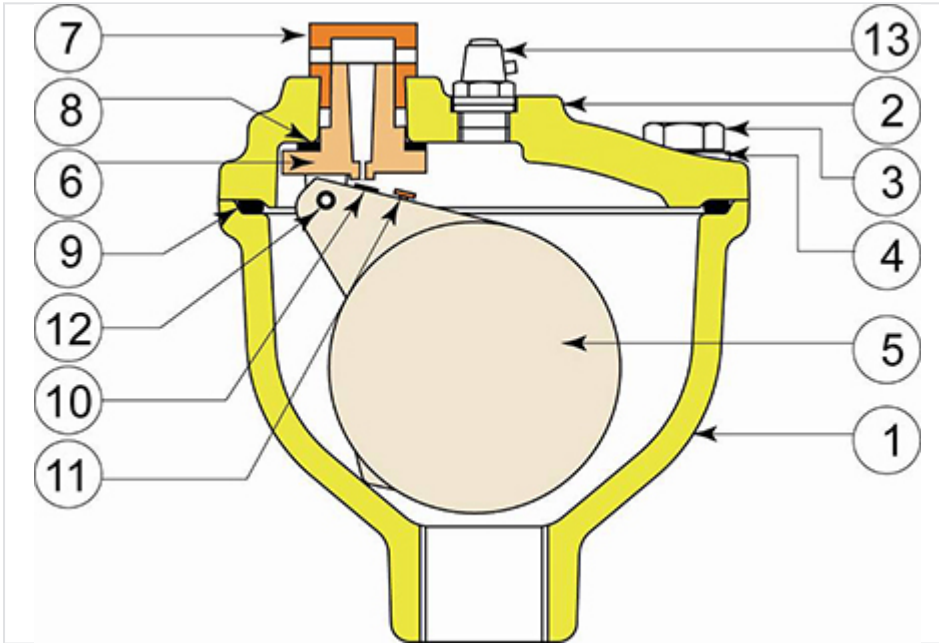


Type 113



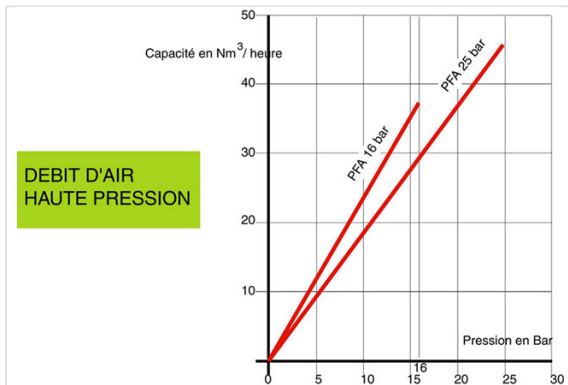
Type 113

### Material and coating



Item	Designation	Material	Coatings
1	Body	Ductile iron FGS 400/15 or 500-7	Blue Epoxy 250 microns
2	Cover	Ductile iron FGS 400/15 or 500-7	Blue Epoxy 250 microns
3	Screw	Stainless steel A2	
4	Washer	Stainless steel A2	
5	Float	ABS	
6	Nozzle	Polyamide	
7	Nut	Polyamide	
8	Gasket	EPDM	
9	O ring	EPDM	
10	Gasket	EPDM	
11	Adjusting screw	Stainless steel A2	
12	Pin	Stainless steel A2	
13	Air valve	Brass	

## Performances



## Applicable Standards

### Hydraulic test

Every single air valve is subjected to hydraulic test in accordance with the prescription EN 1074:

- Test of float at minimum declared pressure according to EN 1074-1 standard (0,5 bar).

### Product test

- Control of coatings: test of thickness, holiday test, impact test, MIBK test.

## Conformity to the standards

Product:

- EN 1074-1
- EN 1074-4

Flanges connection:

- EN 1092-2
- ISO 7005-2

Suitability for potable water:

- D.M. 174 for applicable parts (ex : C.M. 102 du 02/12/78)
- Conformity with foreign norms: KTW (Germany), WRC (UK), ACS (France)

## Marking

On the body:

- Type of ductile iron
- Model code
- Manufacturer's logo
- Fusion date

#### On the labels:

- Nominal diameter in mm (DN)
- Nominal pressure in mm (PN)
- Maximum operating pressure (PFA)
- Production number
- Manufacturer's logo

#### Valves selection

The operating pressure value (PFA) is defined depending on the pressure of the pipeline. Moreover this is important to verify that the operating temperature is between 0° C and 40°C.

The maximum flow allowable depends on air valve PFA and is calculated using the formula:

$Q = v \cdot A$ ; where "v" is the outlet air speed from a small orifice (measured: 195 m/s) with pressure more than 1,3 bar.

PFA	Orifice Diameter (mm)	Max Flow (m3/h)
25	1,75	1,69
16	2,25	2,79

To evaluate if a single vent is enough, it must be check the air flow which is to be evacuated, which depends on the devices fitted on the pipe (i.e. pump thrust, etc...) and the solubility of air in water (Bunsen coefficient, function of temperature and pressure).

#### Instructions for use

##### Storage

The air valve will have to be stored (if possible) in covered places, as possible protected from the sun and from the rain and generally from the atmospheric agents. Moreover it will have to be avoided that the seal of the air valves are in contact with dust or gravel.

##### Installation

The automatic degassing air valve is installed where the pipe have a slope variation, for eliminating the air balls which can be accumulated in the higher points or moving inside the duct.

##### Maintenance

In order to grant the possibility of future inspections, it is necessary during the installation to fit a manual sectioning device (i.e. gate valve or butterfly valve) between the pipe flange and the air valve. In this way it will be possible to maintain without interrupting service. It is important to make sure that air valve can be disassembled while the pipe is still in service.



# AIR VALVES PROTECTION EQUIPMENT FOR RESERVOIRS DN 40 - 100

01/06/2026  
VPPDV21PGX250

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*The information on this sketch is, to the best of our knowledge correct at the time of printing. However Saint-Gobain are constantly looking at ways of improving their products and services therefore reserve the right to change without prior notice, any of the data shown. Any orders placed will be subject to our Standard Conditions of Sale, available on request.*