

Air valve type VENTEX SR (without isolating system) - Reinforced version



The Ventex SR air valves are without shutter gasket.

The air valves protect the main:

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
 evacuates small air amounts that are accumulated in the high points of the main during normal working conditions

The Ventex SR air valves are without shutter gasket. They are less bulky and easier to handle. They therefore do not include isolating system.

The air valves are in conformance with EN 1074-4 and have a certificate of sanitary conformity.

Warning: in order to allow the maintenance, the air valves must be installed with a concentric butterfly valve Lug type or an isolating valve Euro 20 type between the network and the air valve.

Range

Air Valves Type VENTEX SR exist in a range stretching from DN50 to 200, for pressure PFA10, PFA16 and PFA25.

DN Air valve	E	F	H	h1	a	s
mm	mm	mm	mm	mm	mm	mm
50-65	390	200	258	165	20	15.3

DN Air valve mm	E mm	F mm	H mm	h1 mm	a mm	s mm
80-100	467	244	300	215	20	15,3
150	656	405	492	285	24	18,5
200	737	448	580	330	29	20,7

Nozzle diameter

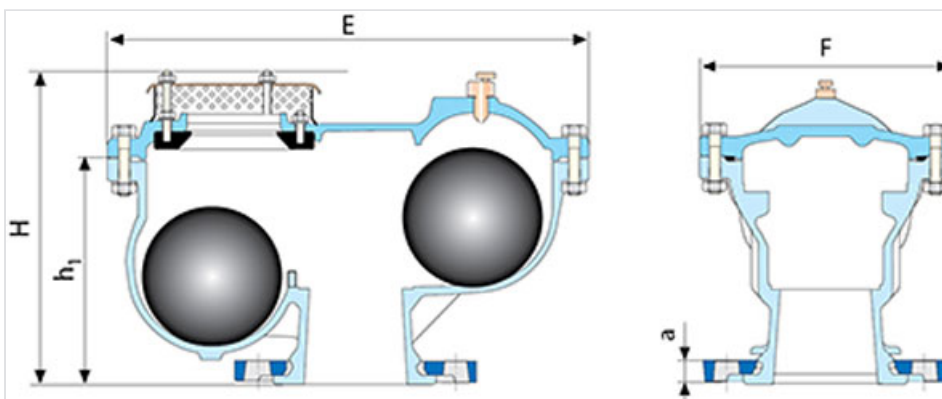
Working pressure (bar)	10	16	25
Diameter (mm) for DN Air valve 65	2.2	1.7	1.4
Diameter (mm) for DN Air valve 80 to 200	3	2.4	1.9

Connecting flange: 65 type double air valve is fitted with an ISO PN10-16 or ISO PN25 DN60 rotatable flange

Other flanges available:
ISO PN10-16 or ISO PN25 rotatable DN65 flange
DN50 fixed flange.

DN (mm)	PN 10		PN 16		PN 25	
	Mass (kg)	References	Mass (kg)	References	Mass (kg)	References
50	25.00	*	25.00	252926	25.00	252931
60	25.00	*	25.00	*	25.00	*
65	27.00	252936	27.00	252923	27.00	*
80	40.00	252935	40.00	252922	40.00	252930
100	40.00	252934	40.00	252921	40.00	252929
150	115.00	252933	115.00	252890	115.00	252928
200	186.00	252932	186.00	252887	186.00	252927

(*) consult us

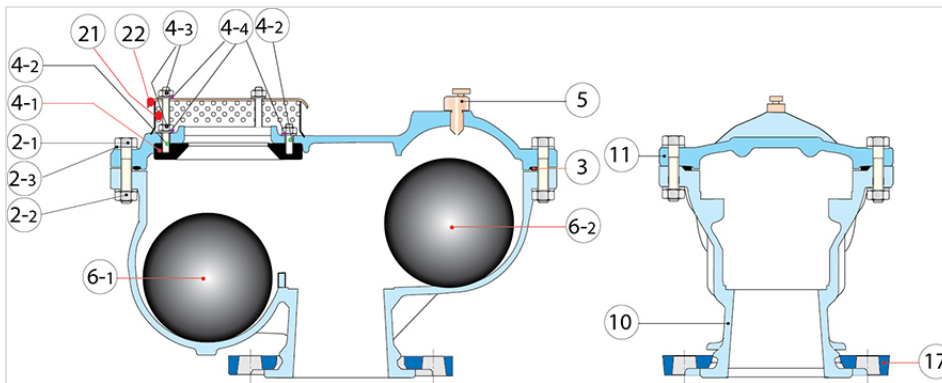


Allows during the emptying of the main with a speed 1m/s

Main	DN ≤ 250	DN300-600	DN700-900	DN1000-1200	DN1200-1800
Air Valve	DN50, 60, 65	DN80,100	DN150	DN200	2 DN200

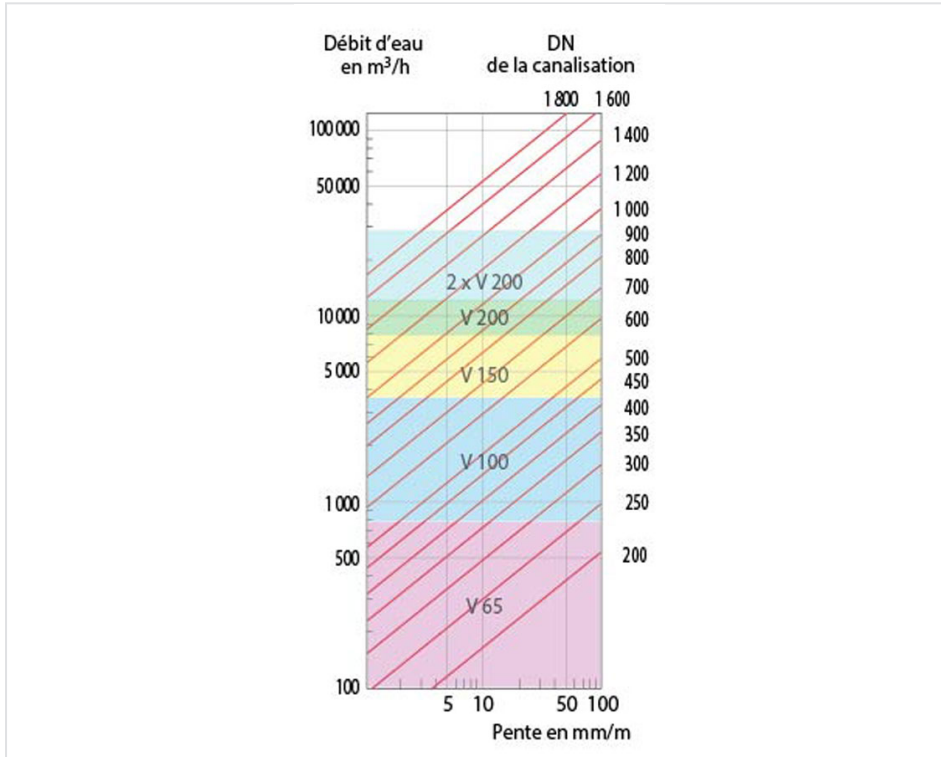
This Ventex choice allows, in case of break main, to limit maximal pressure drop 0,3 Bar for a flow rate with a part full gravity pipeline on a given slope: See paragraph Performances.

Material and coating



Item	Designation	Material
10, 11	Body, Bonnet	FGS 400/15 ou 500-7 coated epoxy 300 µ mini acc. EN 1563
2-1, 2-2, 2-3	Body-bonnet: bolts and washers	Stainless steel A4
3	Body-bonnet gasket	EPDM Rubber acc. EN681-1
4-1	Large orifice seat	NBR rubber encapsulated SG 400/15 ductile iron acc. EN 1563
4-2+4-3+4-4	Seat: bolts and washers	Stainless steel A4
5	Nozzle and nozzle control	Cu Al 10 Ni3 Fe2 alu-bronze type
6-1 and 6-2	Float balls	EPDM rubber encapsulated Core in steel DC03 or DC04 to EN 10130 and DD11 or DD13 to EN 10111 steel type

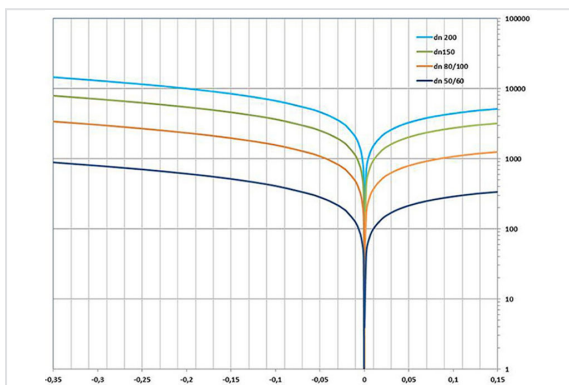
Performances



Water flow in case of break

Examples of Use: for a main DN600 laid inclined 4mm/m flow water around 1800 m³/h , flow which will not create a depression higher than 0,3b according to graph air flow large orifice below

Air flow large orifice



Air Flow output by large orifice in m3/h (with the pressure of main: air flow = water flow) - Air Flow input by large orifice in m3/h (with the pressure of main: air flow = water flow)

Nozzle air flow

Constant Flow from 1 bar (10MCE)

PFA in Bar	10		16		25	
DN in mm	50-65	80-200	50-65	80-200	50-65	80-200
Ø nozzle in mm	2,2	3	1,7	2,4	1,4	1,9
Flow in m3/h	2,7	5	1,6	3,2	1,1	2

Hydraulic

Small and large Float balls: External leakage

No leakage in low pressure from 0,3 bars

Marking



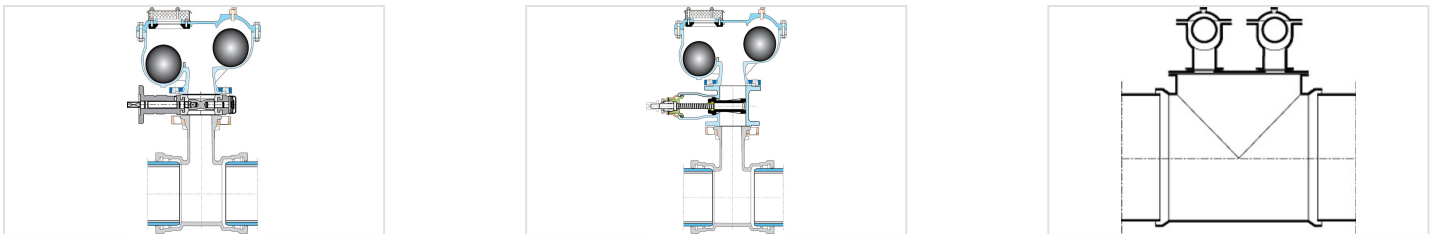
The marking of the valves manufactured by Saint-Gobain refers to the EN 1074-2 and EN 19 international standards.

Markings are either integral markings, cast in the body, or markings made on plates, securely fixed to the body, in accordance with the EN 19 standard specifications.

EN 19 Specifications			Saint-Gobain valves process
Table 1 - Valve markings		Requirements	
1	DN	EN 19 § 4.2.1 Mandatory markings Shall be integral markings or on a marking plate	Integral
2	PN		Integral
3	Material		Integral
4	Manufacturer's name or trademark		Plate
11	Reference to Standard	EN 19 § 4.3	Plate
12	Melt identification	Supplementary markings Items 7 to 21 in Table 1 are optional	Integral

EN 19 Specifications		Saint-Gobain valves process
Table 1 – Valve markings		Requirements
16	Quality test	
18	Manufacturing date	
21	Closing direction	
		Printed on body
		Plate
		Plate + sticker on body

Installation



4.

Mounting with gate valve (Concentric LUG Butterfly valve or Euro 20 NG type 23 with or without reducing flange):
only for a repairing without water cut: operating system or shutter gasket insert gate valve

1. Standard Mounting with Concentric LUG Butterfly Valve
2. Mounting with EURO 20 NG type 23
3. Mounting with two air valves DN200: for pipes DN1400 up to DN1800: to realize according to sketch on a tee 3 equal socket and a special Blank flange

Related products :

- Concentric LUG butterfly valve
- Gate valve Type Euro 23 for PFA10, 16 - Gate valve Type RVOM for PFA25

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.