Air valve type VENTEX - Reinforced version

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

Range

Air Valves **Type VENTEX** 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
65	390	200	258	165	20	15.3
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

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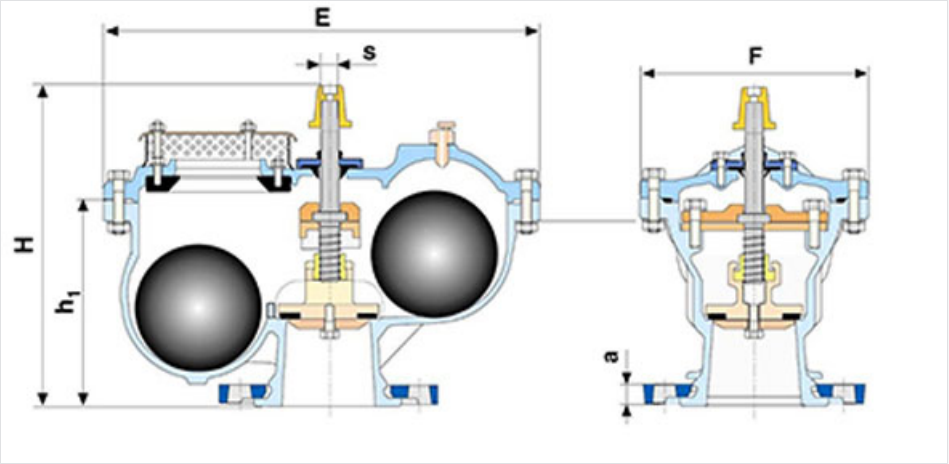
Diameter (mm) for DN Air valve 80 to 200	3	2.4	1.9

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.

		PN 10		PN 16		PN 25	
DN (mm)	Version	Mass (kg)	References	Mass (kg)	References	Mass (kg)	References
50	Handwheel	25.00	*	25.00	*	25.00	179067
60	Handwheel	25.00	*	25.00	*	25.00	*
65	Handwheel	27.00	236358	27.00	236357	27.00	*
80	Handwheel	40.00	181725	40.00	181726	40.00	181727
100	Handwheel	40.00	178928	40.00	178930		
150	Handwheel	115.00	178944	115.00	178945	115.00	178946
200	Handwheel	186.00	178947	186.00	178948		

(*) contact us



Fast choice of Ventex

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

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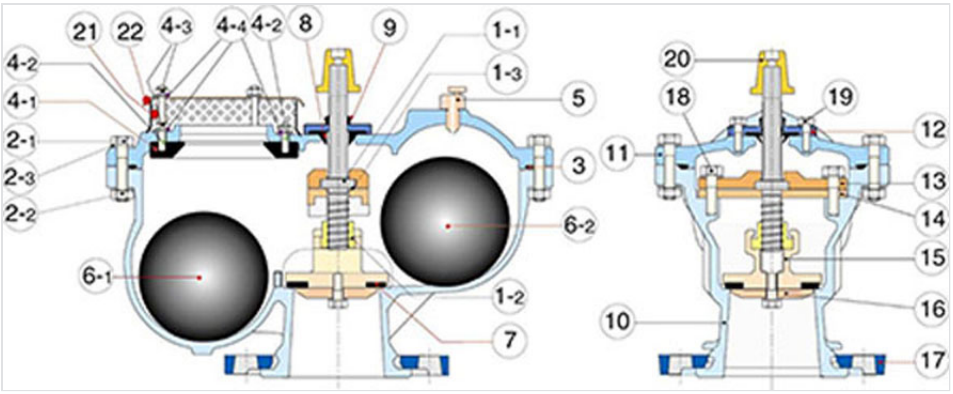
This Ventex choice allows, in case of break main, to limit maximal pressure drop 0,3 Bar for a flow rate with a part full gravity pipeline on a given slope: See paragraph Performances.

Material and coating



Item	Designation	Material
10, 11, 12, 13, 14, 15, 16, 17	Body, Bonnet , Fixing Flanges, Shutter	FGS 400/15 or 500-7 coated epoxy 300 µ mini
1-1	Operating stem	Stainless steel X5CrNiCuNb 16-4 type
1-2	Operating nut	Cu Zn 39 Pb2 bronze type
1-3	Locked wash	Polyamide type 6-6
2-1 ; 2-2 , 2-3	Body-bonnet: bolts and washers	Stainless steel A4
3	Body-bonnet gasket	EPDM Rubber
4-1	Large orifice seat	NBR rubber encapsulated SG 400/15 ductile iron
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
7	Shutter gasket	EPDM Rubber
8	Ring VAN O FRA	EPDM Rubber G 7005
9	V Ring	NBR Rubber
18	Operating system bolts and washers	Stainless steel A4
19		Stainless steel A4
20	Operating square (or hand wheel)	FGS 400/15 coated polyurethane
21	Baffle	Stainless Steel Z6 CN 18-8 type
22	Baffle cover	Steel S235JR type coated Epoxy 300 µ

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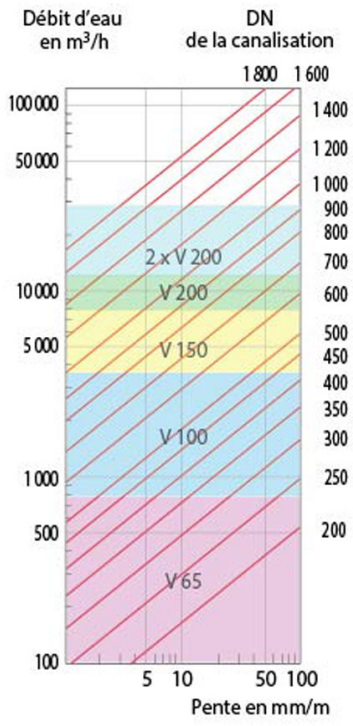
Performances



Water flow in case of break main
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

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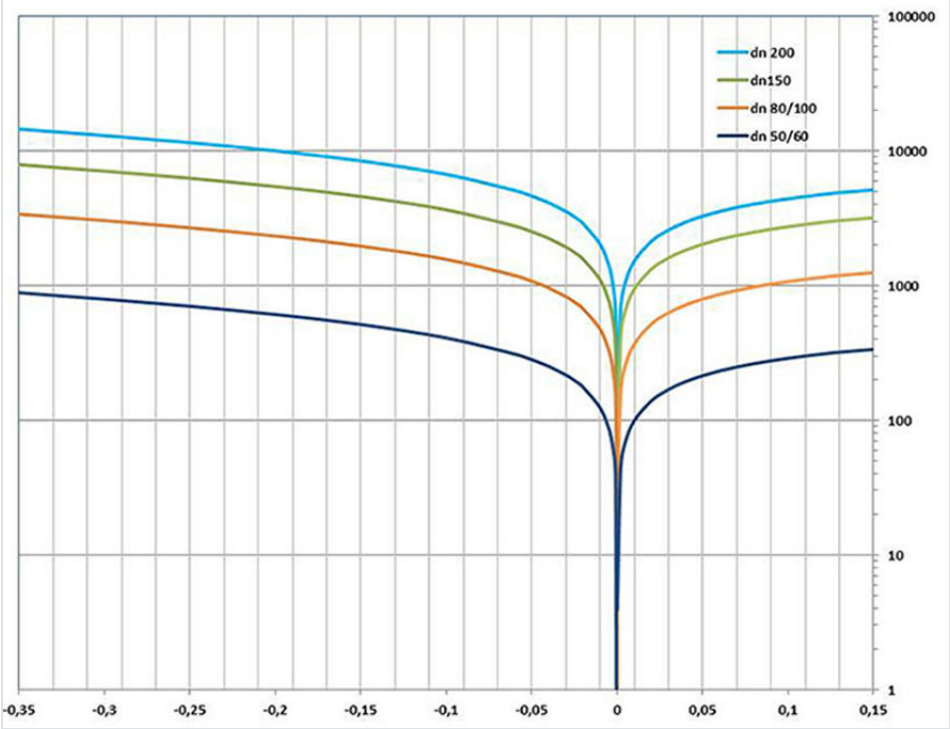
Air flow large orifice



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

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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 Supplementary markings Items 7 to 21 in Table 1 are optional	Plate
12	Melt identification		Integral
16	Quality test		Printed on body
18	Manufacturing date		Plate
21	Closing direction		Plate + sticker on body

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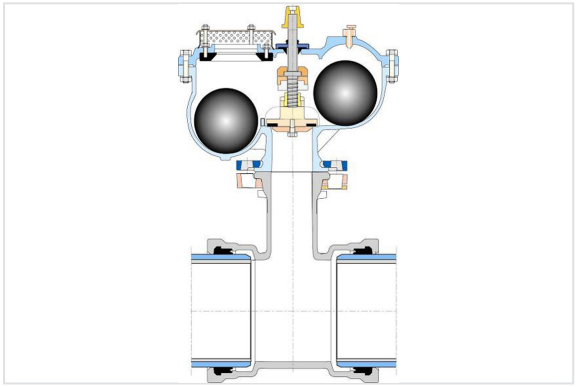
Installation



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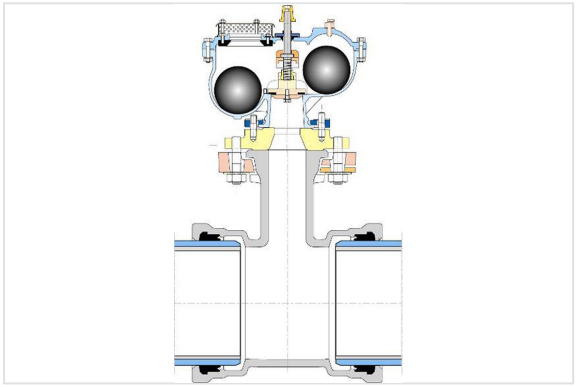

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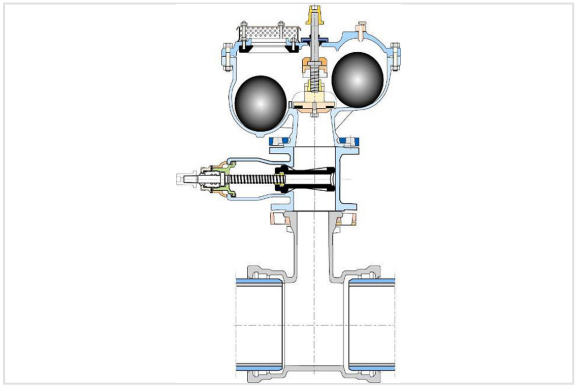

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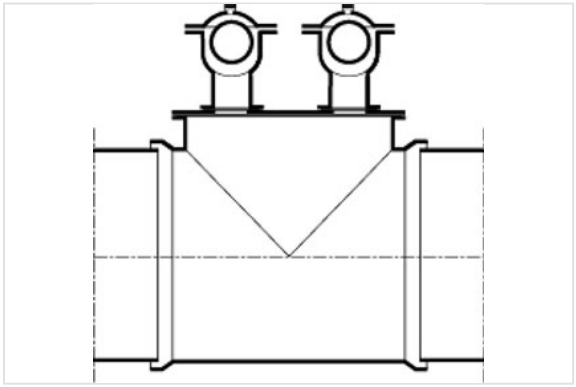

4.

1. Mounting on tee: central operating system allows, without water cut of sector, the regular maintenance of Ventex in particular change of the floats ball
2. Mounting with reducing flange
3. Mounting with gate valve: only for a repairing without water cut: operating system or shutter gasket insert gate valve
4. 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

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