



### Features

- Advanced design with simple mechanism, strong float to prevent cracking during sudden water hammer & quick closure.
- Aerokinetic mechanism to resist blow shut under higher air velocity even up to sonic velocity of air.
- No arms or levers to prevent vibrating, bending, direct closure of the float.
- Smooth cage outside of the float, keep float moving in specified guide rail.
- Bottom rubber buffer for collision prevention, and drain easy with proper holes around the cage during vacuum.
- Outside screen will be an option for safety and prevent insects or birds in.
- Fully fusion epoxy coated inside and outside of valve body for long term services.
- Good for distribution pipeline system, if for transmission pipeline with high impact water hammer, the anti shock device should be required.
- Manufacturing standard meets BS EN 1074-4, AWWA C512
- Flange drilling and dimension meets BS EN 1092 and BS EN 558 and ANSI flange.

### Technical data

**Size range:** DN 50-300MM

**Pressure ratings:** 1.0Mpa, 1.6Mpa(Thread)  
1.0Mpa, 1.6Mpa, 2.5 Mpa(Flange)

**Working temperature:** -10°-80°C.

**Flow media:** clean water

**Service Fields:** For water system, fire fighting, irrigation system.

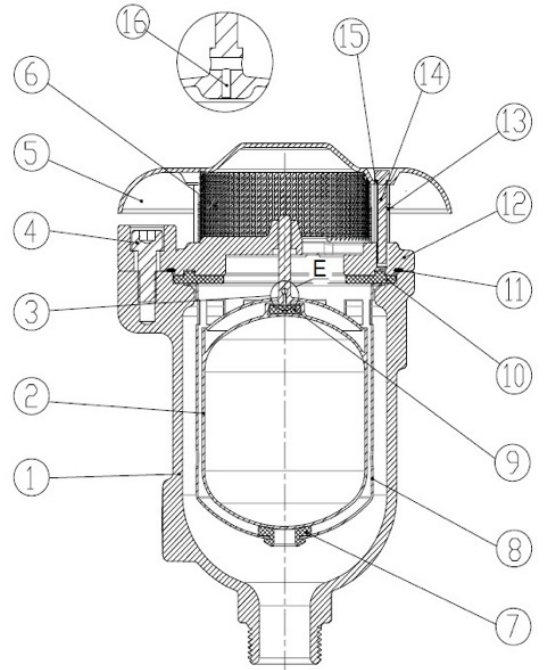
### Functions

1. Large air release during filling of the pipeline.
2. Small air release under pressurized pipeline.
3. Large air intake during draining of the pipeline.

DN25 - DN50

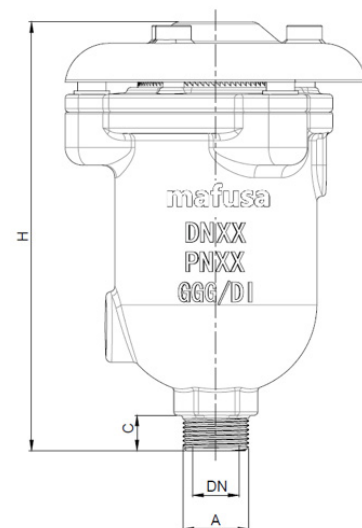
## Parts list

NO.	PART NAME	MATERIAL	STANDARD
1	Body	Ductile Iron	EN GJS 500-7
2	Float	Stainless Steel	AISI 304
3	Sealing Arc	Stainless Steel	AISI 304
4	Hex bolt	Carbon St/Stainless Steel	Zinc Coated/AISI 304
5	Cover	Carbon Steel	Comm/epoxy coated
6	Screen	Stainless Steel	AISI 304
7	Buffer	Rubber	NBR/EPDM
8	Guide Barrel	Stainless Steel	AISI 304
9	Nozzle Seat	Rubber	NBR/EPDM
10	Seat	Rubber	NBR/EPDM
11	O Ring	Rubber	NBR/EPDM
12	Bonnet	Ductile Iron	EN GJS 500-7
13	Pillar	Aluminium	Commercial
14	Hex Bolt	Carbon St/Stainless Steel	Zinc Coated/AISI 304
15	Washer	Stainless Steel	AISI 304
16	Small Nozzle	Stainless Steel	AISI 304



## Dimensions

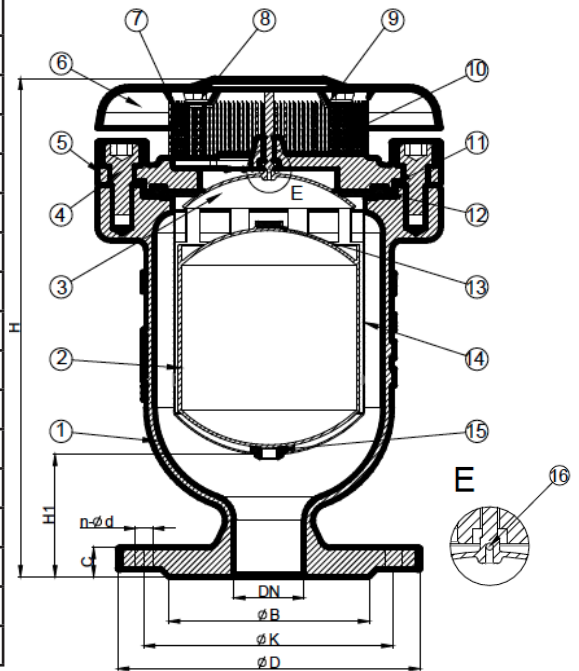
DN	MODEL NO.	Ø A	C	H
25	VCT025R	1"	20	243
32	VCT032R	1/4"	20	243
40	VCT040R	1/2"	20	243
50	VCT050R	2"	20	243



DN50 - DN300

## Materials

NO.	PART NAME	MATERIAL	STANDARD
1	Body	Ductile Iron	EN GJS 500-7
2	Float	Stainless Steel	AISI 304
3	Sealing Arc	Stainless Steel	AISI 304
4	Hex bolt	Carbon St/Stainless Steel	GI / AISI304
5	Bonnet	Ductile Iron	EN GJS 500-7
6	Cover	Carbon Steel	Comm/epoxy coated
7	Screen	Stainless Steel	AISI 304
8	Hex bolt	Carbon St/Stainless Steel	GI / AISI 304
9	Washer	Stainless Steel	AISI 304
10	Pillar	Aluminium	Commercial
11	O Ring	Rubber	NBR/EPDM
12	Seat	Rubber	NBR/EPDM
13	Nozzle Seat	Rubber	NBR/EPDM
14	Guide Barrel	Stainless Steel	AISI 304
15	Buffer	Rubber	NBR/EPDM
16	Small Nozzle	Stainless Steel	AISI 304



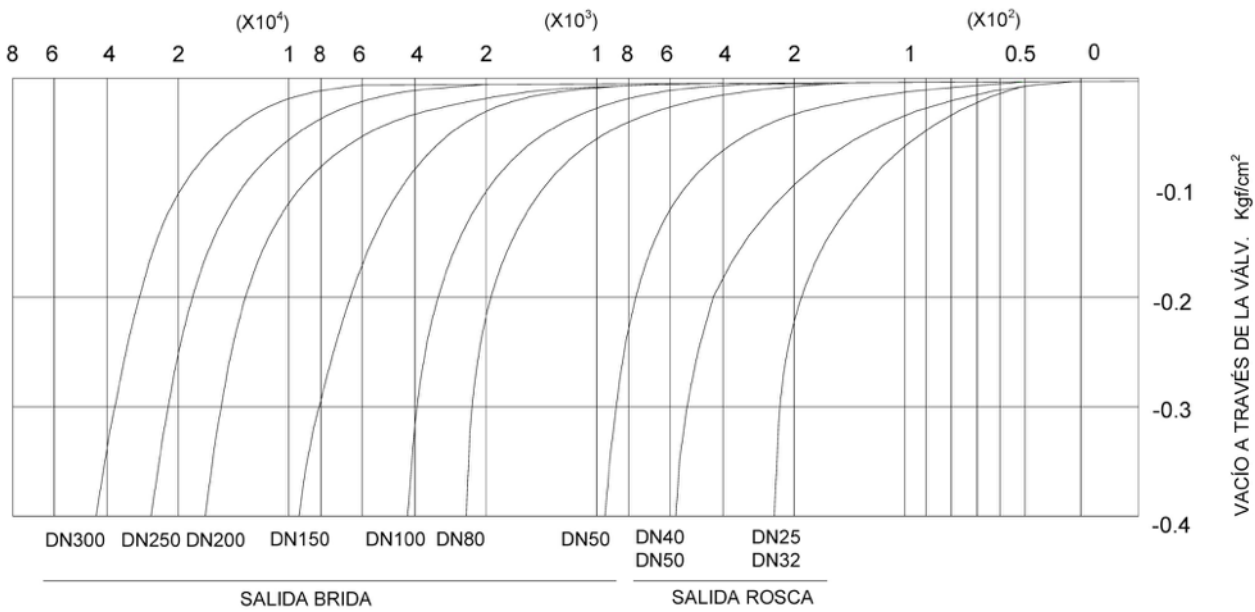
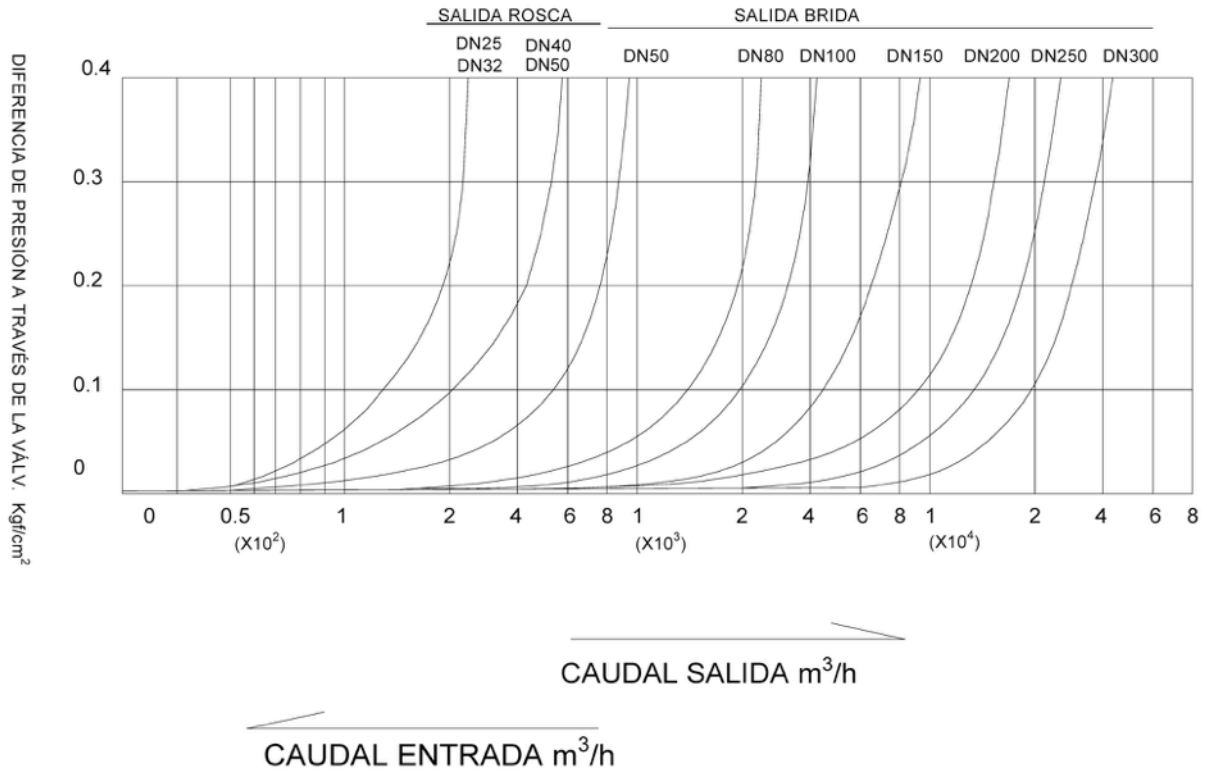
## Dimensions

DN	Ø B			Ø D			Ø K		
	PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	99	99	99	165	165	165	125	125	125
80	132	132	132	200	200	200	160	160	160
100	156	156	156	220	220	235	180	180	190
150	211	211	211	285	285	300	240	240	250
200	266	266	274	340	340	360	295	295	310
300	370	370	389	445	460	485	400	410	430

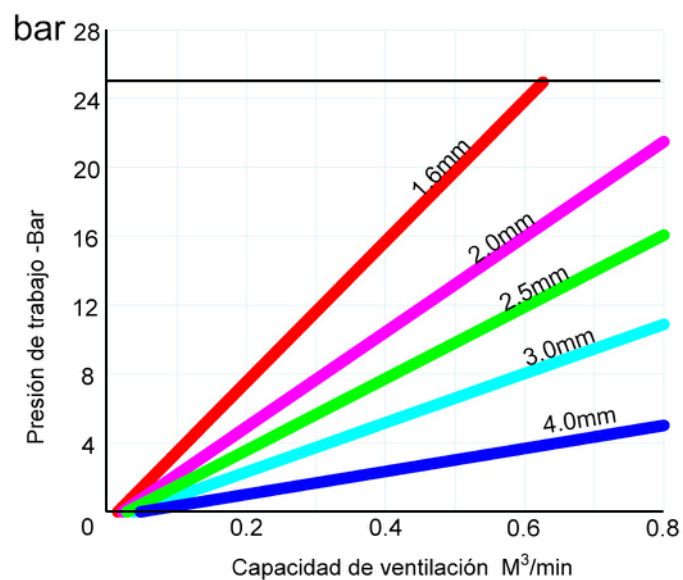
DN	H	Ø B		
		PN10	PN16	PN25
50	280	4-Ø19	4-Ø19	4-Ø19
80	362	8-Ø19	8-Ø19	8-Ø19
100	395	8-Ø19	8-Ø19	8-Ø19
150	485	8-Ø23	8-Ø23	8-Ø23
200	582	8-Ø23	12-Ø23	12-Ø23
300	750	12-Ø23	12-Ø23	12-Ø23



Flow Performance



## Air release during working conditions



## Quick Selection Table

<b>Water flow rate range Max.CMH (M3/Hour)</b>	760	1360	4160	8500	19100	33400	76300
<b>Main pipe size (mm)</b>	80-300	200-400	400-700	750-1000	1050-1500	1500-2000	2100-3000
<b>Inlet size (mm)</b>	25*/32*/40*/50*	50**	80**	100**	150**	200**	300**
<b>Bore of outlet (mm)</b>	50	75	95	130	170	230	330
<b>Small orifice size (mm)</b>	2	2	2	3	3	4	4

\*These are pipe thread Combination Air Release Valve-KARS, which can be up to Max. WP PN16.

\*\*Those flange type from DN 50-300 can be up to Max. WP PN 25.