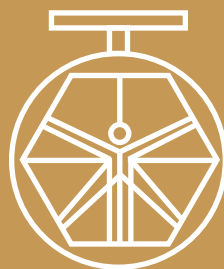


**GROUP 500
AUTOMATIC
CONTROL
VALVES MOD.
505B/102**



**DAVINCI
VALVES™**

**TECHNICAL
DATA SHEET**
WATER Series

**AIR RELIEF VALVES SEWAGE WATER
FLANGED END TRIPLE FUNCTION**

**DAVINCI
VALVES™**



**QUALITY
ASSUREMENT**

**DAVINCI
VALVES™**



**PRODUCT QT
ASSUREMENT**

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**COMPANY QT
ASSUREMENT**

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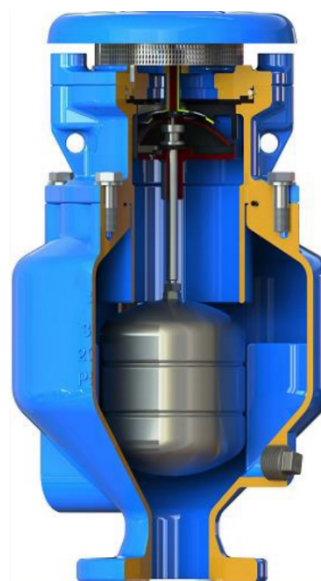
18 Dongyu Street, Square One,
11th Floor 1101, Jinjiang District,
Chengdu, Sichuan CHINA

10F/Tower A, Billion Center,
1 Wang Kwong Road, Kowloon Bay
Kowloon HONG KONG

AIR RELIEF VALVE TRIPLE FUCTION SEWAGE WATER ref.505B / PN 10-16-ANSI150#

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.
- . With special fat body design to lower the sewage water flow speed, and let the air out but keep sewage water underneath.
- . Keep dirty or corrosive liquid inside the body for safety during operation and no harm to human & surrounding environment
- . Internal body guide and upper round wall keep float moving on its rail and keep liquid turbulence flow within this area.
- . Much bigger air flow through the nozzle even for higher viscosity liquid.
- . 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.



All the components can be substituted with equivalent or higher-class materials.

DAVINCI VALVES LTD, is constantly looking at all ways of improving our products and services related to the water, fire and industry sector and therefore we reserve the right to change, without prior notice, any of the data contained here. Please contact our Technical Sales Department for detailed advice.
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AIR RELIEF VALVE TRIPLE FUNCTION SEWAGE WATER ref.505B / PN 10-16-ANSI150#

- Sewage combination air release valve

Provides 3 functions:

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

Service Fields:

For sewage water system.

Technical Data:

Size range: DN 50-200MM

Pressure ratings: 1.0Mpa, 1.6Mp (Flange)

Working temperature: -10°-80°C.

Flow media: sewage water.

Please consult factory for PN25 and anti shock device whenever there is water hammer issue.

- Manufacturing standard meets BS EN 1074-4, AWWA C512. Flange drilling and dimension meets BS EN 1092 and ANSI flange.

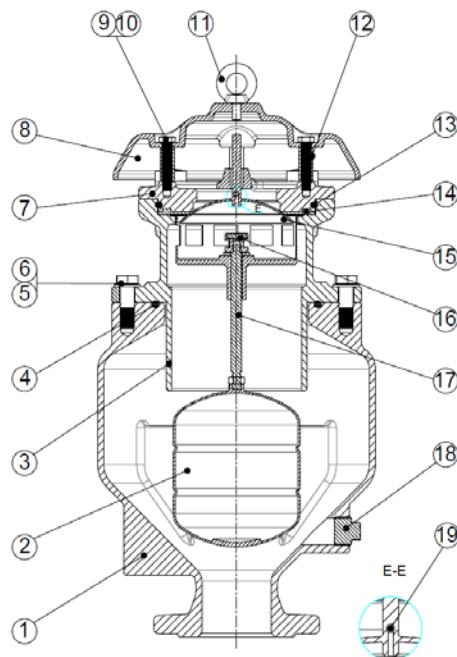


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AIR RELIEF VALVE TRIPLE FUCTION SEWAGE WATER ref.505B / PN 10-16-ANSI150#



No.	Part Name	Material	Standard
1	Body	Ductile Iron	EN GJS 500-7
2	Float	Stainless Steel	AISI 316L
3	Middle Part	Ductile Iron	EN GJS 500-7
4	O-Ring	Rubber	NBR
5	Hex Bolt	Stainless Steel	AISI 316
6	Washer	Stainless Steel	AISI 316
7	Bonnet	Ductile Iron	EN GJS 500-7
8	Cover	Ductile Iron	EN GJS 500-7
9	Washer	Stainless Steel	AISI 316
10	Hex Bolt	Stainless Steel	AISI 316
11	Eyebolt	Carbon Steel	AISI 316
*12	Pillar	Aluminium	Commercial
13	O-Ring	Rubber	NBR
14	Seat	Rubber	NBR
15	Sealing Arc	Stainless Steel	AISI 316
16	Orifice Seat	Rubber	NBR
17	Stem	Stainless Steel	AISI 316
18	Plug-Option	Stainless Steel	AISI 316
19	Small Orifice	Stainless Steel	AISI 316

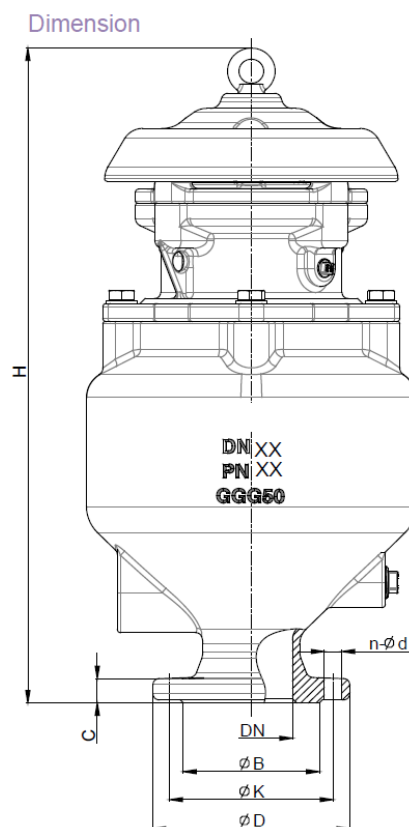
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AIR RELIEF VALVE TRIPLE FUCTION SEWAGE WATER

ref.505B / PN 10-16-ANSI150#



Unit: MM

DN	Model No.	H	ØD		ØK		ØB		n-Ød		C
			PN10	PN16	PN10	PN16	PN10	PN16	PN10	PN16	
50	SKAR-0050	558	165		125		99		4-Ø19		19
80	SKAR-0080	653	200		160		132		8-Ø19		19
100	SKAR-0100	676	220		180		156		8-Ø19		19
150	SKAR-0150	810	285		240		211		8-Ø23		19
200	SKAR-0200	950	340		295		266		8-Ø23	12-Ø23	20

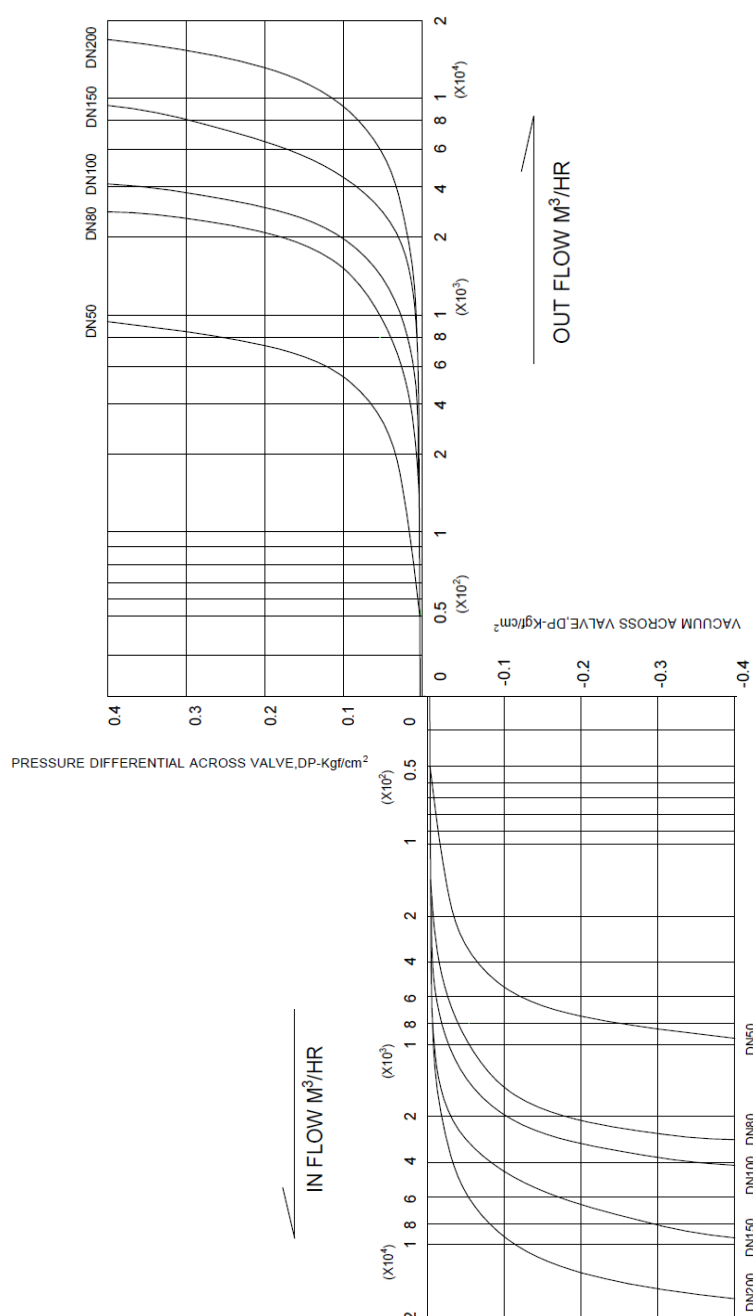
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AIR RELIEF VALVE TRIPLE FUCTION SEWAGE WATER ref.505B / PN 10-16-ANSI150#

BIG NOZZLE EXHAUSTING / INTAKE



TECHNICAL DATA SHEET

All the components can be substituted with equivalent or higher-class materials.

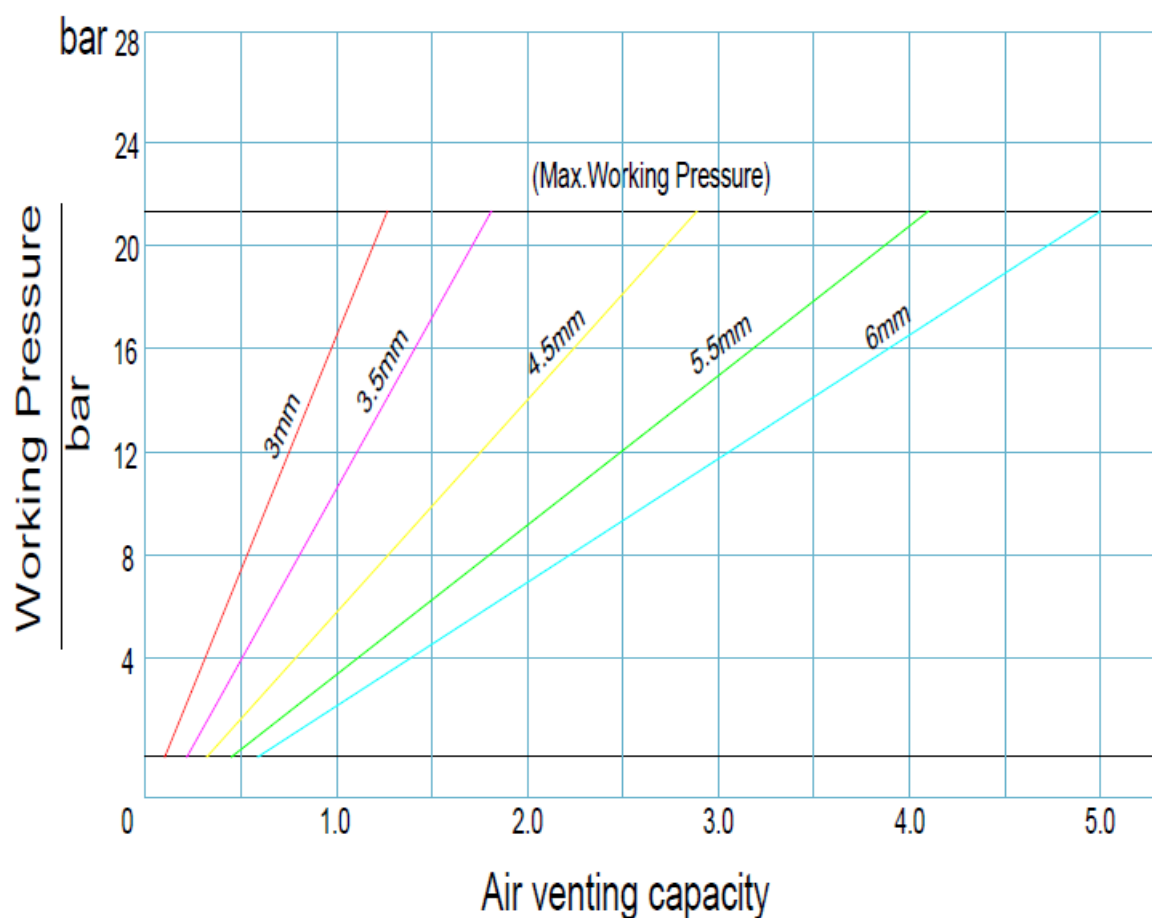
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AIR RELIEF VALVE TRIPLE FUCTION SEWAGE WATER

ref.505B / PN 10-16-ANSI150#

Combination Air Release Valve air venting capacity



Quick Selection Table

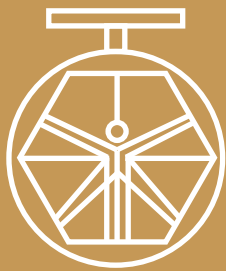
Water flow rate range Max.CMH (M³/Hour)	1,360	4,160	8,500	19,100	33,400
Main pipe size MM	80-400	400-700	750-1000	1050-1500	1500-2000
Inlet size of MM	50	80	100	150	200
Small orifice size	3.0	3.5	4.5	5.5	6

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