

ADVANCED TECHNOLOGY
FROM

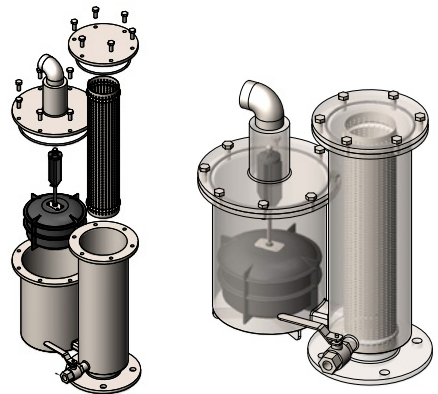
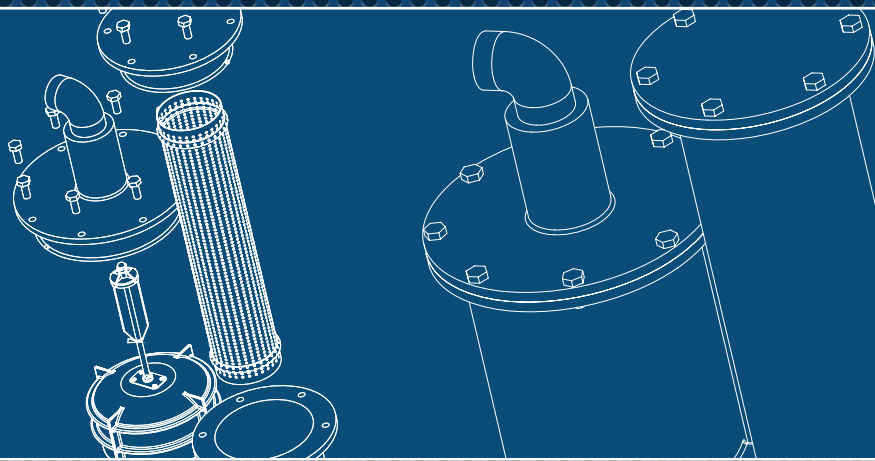


VALVE DIVISION



The VS-4 Twin-Chamber
SMARTVALVE

Combination Air Release Valve
for all Sewage
and Potable Water Mains



PATENTED

ADVANCED AIR RELEASE VALVE TECHNOLOGY

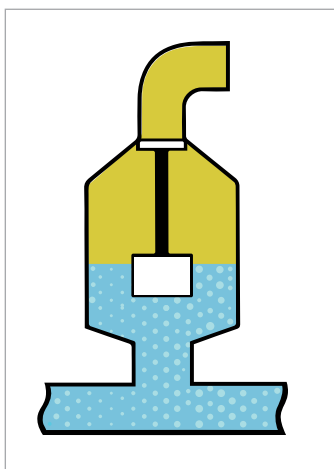
www.vs-4.com

FERGUSON[®]
WATERWORKS

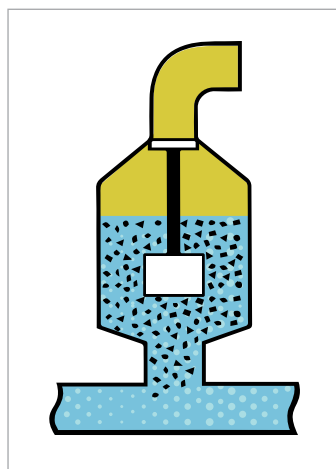
Comparisons

	Single Chamber Valves	Double Chamber Valves
Floats and seals protected from solids	NO	YES
Seals at atmospheric pressure	NO	YES
Easily serviced on-site	NO	YES
Guaranteed anti-hammer air chamber	NO	YES
Multiple valve ports to a single upstand	NO	YES
Built-in surge protection (adjustable)	SOME	YES
316 stainless steel construction	SOME	YES
Extra long service intervals	NO	YES

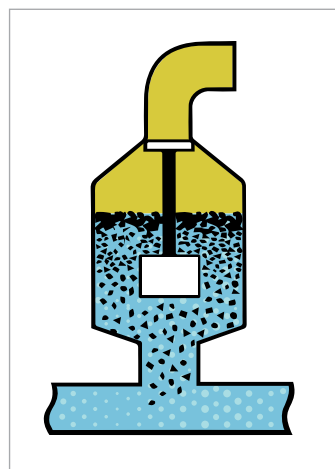
Faults of single chamber air valves



Inflow float closes



When water pressure compresses the air, water and rubbish rises above float.

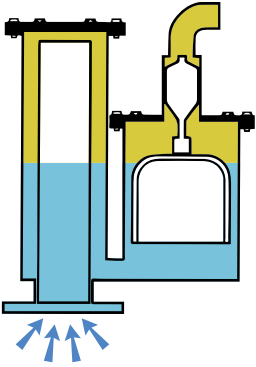


Fats & rubbish accumulate at high point.



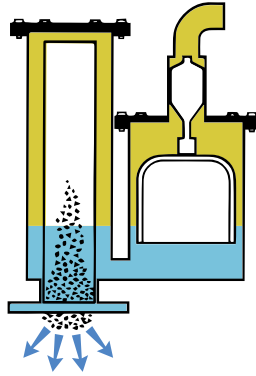
Negative flow rubbish 'bird nest' caught in valve. Blocked and/or leaking

Double chamber VS-4 Smartvalve advantages



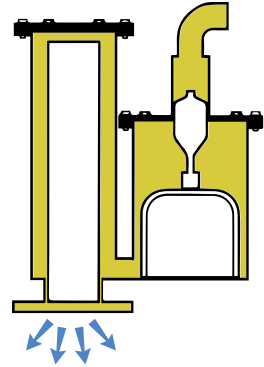
STAGE 1

- I. Air and water enter the VS-4 Smartvalve.
- II. Only filtered water reaches the float assembly.
- III. Valve is closed: rubbish is confined in the cylindrical filter.
- IV. Valve is ready for more air.



STAGE 2

- I. When more air enters, it first displaces the water and contaminants downward and back to the main.
- II. This primary air compression chamber holds air at all times for best anti-hammer and shock control.
- III. The two stage seals maintain correct valve operation at all times unhindered by solid contaminants.



STAGE 3

- I. At times of negative pressure, the primary compression chamber helps expel rubbish back to the mains.

The VS-4 Smartvalve overcomes previously experienced faults found in all single chamber valves (see page 2 Comparisons).

**SPECIFIED BY
MAJOR
UTILITIES**

Reduce your maintenance and **save** money

Reduced Maintenance

With its tubular fine mesh screen, solids are excluded from the float and seal chamber.

Cost Savings

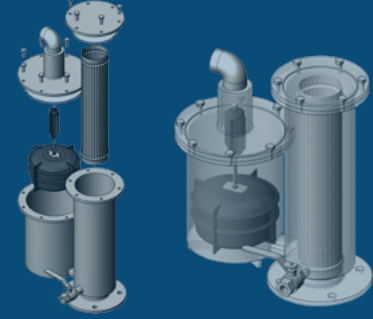
Reducing short and long term maintenance costs are an important consideration. By virtue of VS-4 Smartvalve's anti-hammer design, pipe fatigue is greatly reduced. Smartvalve guarantees an anti-slam pressure chamber of air at all times.

All things considered, VS-4 SMARTVALVE Is the smarter choice!



VS-4-S Standard

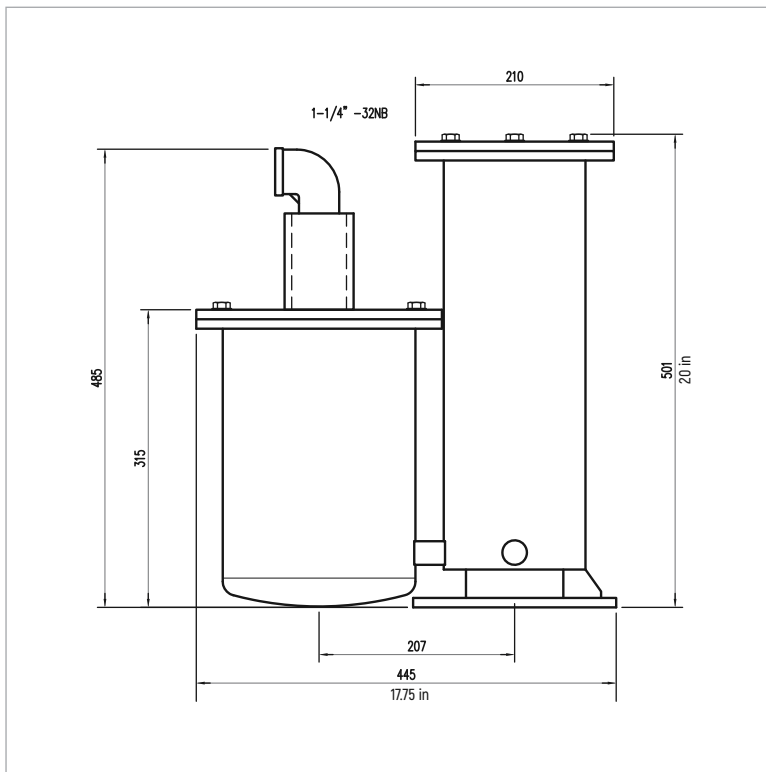
Combination Air Release Valve
A Breakthrough in Sewage Main Valve Technology



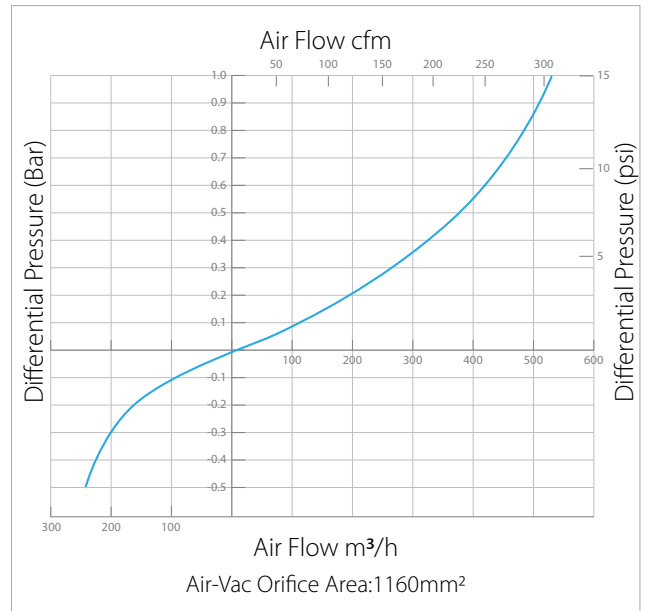
VS-4-S Standard		
Weight	23 kg	50 lb
Air-Vac Orifice	1160 mm ²	1.75 in ²
Auto Orifice	10.2 mm ²	0.01 in ²
Anti-surge Orifice	(variable) mm ²	
Emergency Vacuum Orifice (optional)		
Single	1900 mm ²	2.85 in ²
Double	3400 mm ²	5.7 in ²
Others	Optional	

Twin valve chamber model is available. This will double all air flows.

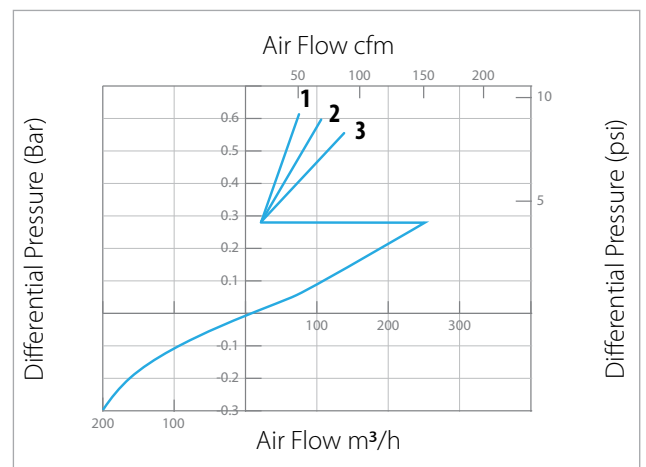
Australia	Table D 100mm (4 hole)
USA	ANSI 4" x 9" (8 hole)



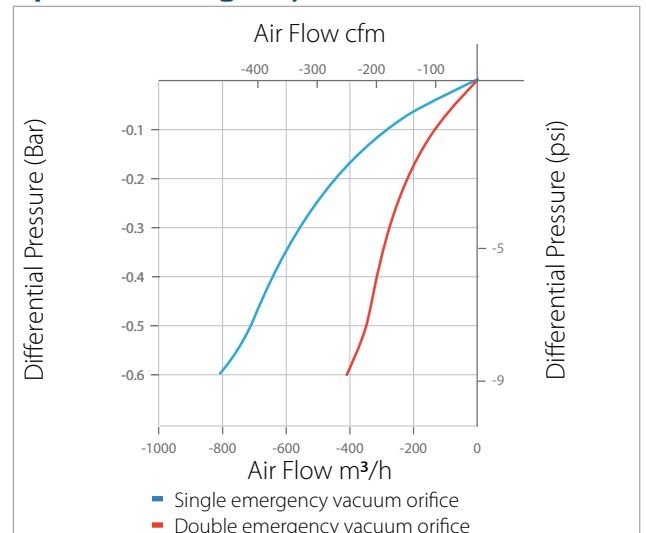
Air-Vacuum Graph



Optional Adjustable Anti-Surge



Optional Emergency Air In Vacuum Control

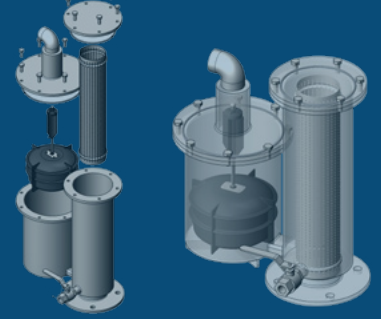


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VS-4-LP Low Profile

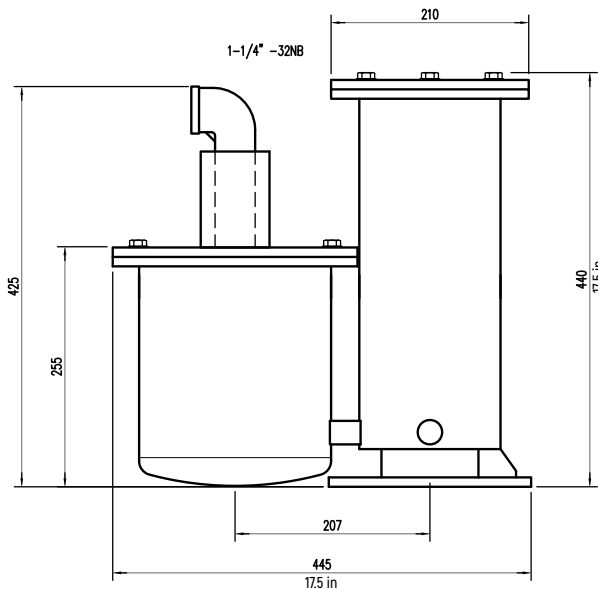
Combination Air Release Valve for Sewage
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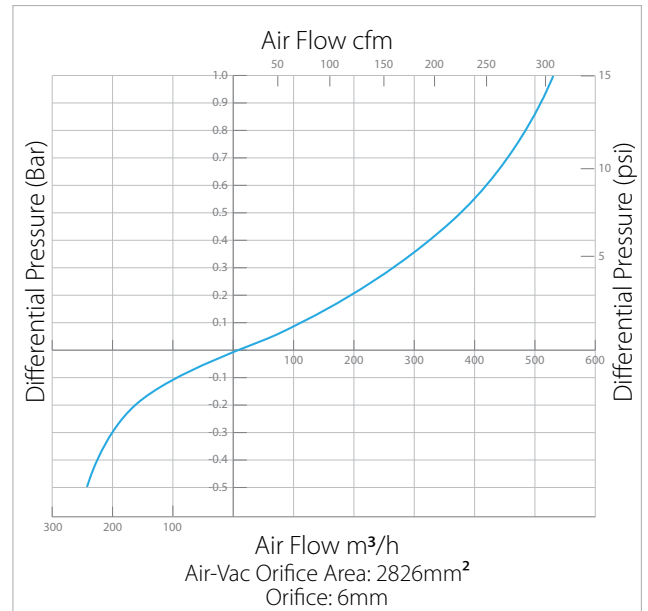
VS-4-LP Low Profile		
Weight	23 kg	50 lb
Air-Vac Orifice	1160 mm ²	1.75 in ²
Auto Orifice	10.2 mm ²	0.01 in ²
Anti-surge Orifice	(variable) mm ²	
Emergency Vacuum Orifice (optional)		
Single	1900 mm ²	2.85 in ²
Double	3400 mm ²	5.7 in ²
Others	Optional	

Twin valve chamber model is available. This will double all air flows.

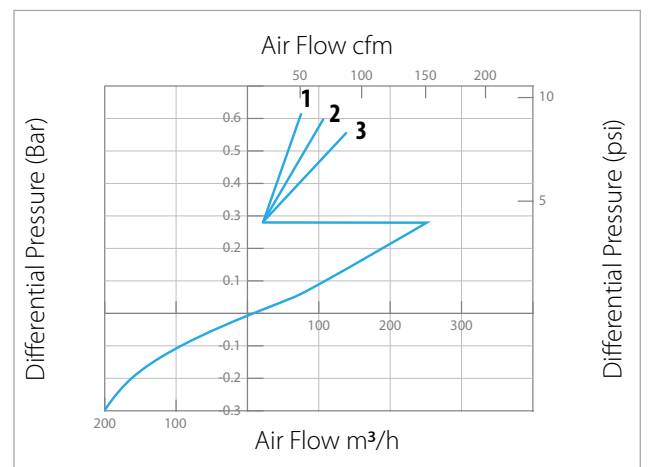
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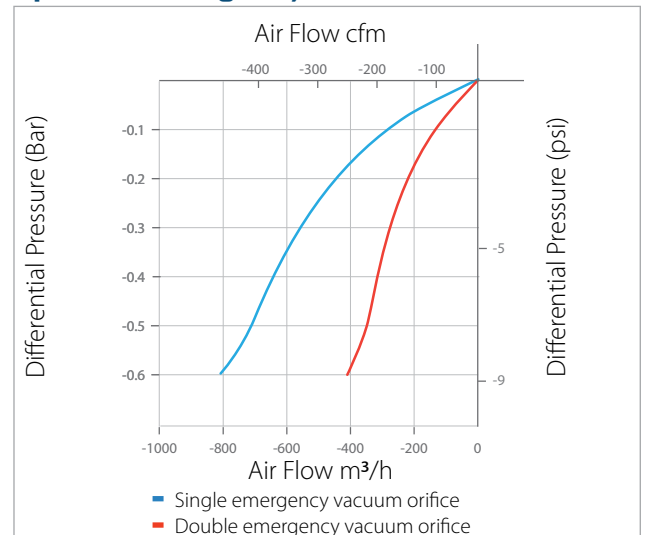
Air-Vacuum Graph



Optional Adjustable Anti-Surge



Optional Emergency Air In Vacuum Control



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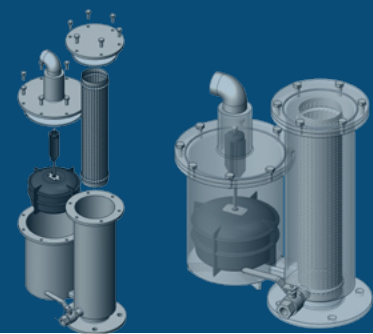
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VS-4-S-HF High Flow

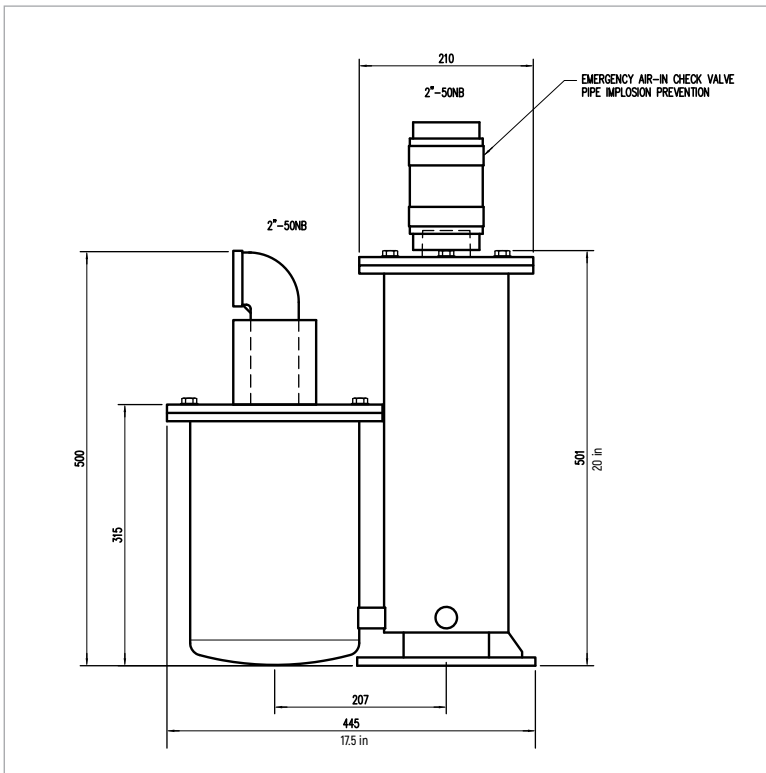
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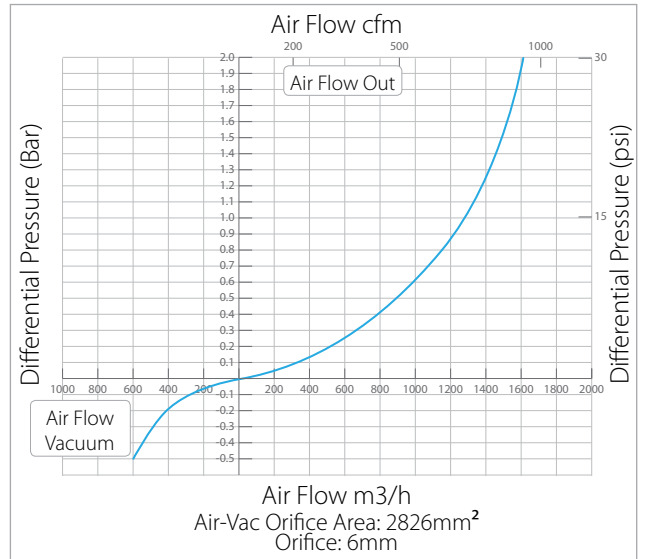
VS-4-S-HF High Flow		
Weight	24 kg	53 lb
Air-Vac Orifice	2826 mm ²	4.2 in ²
Auto Orifice	15mm ²	0.02 in ²
Anti-surge Orifice	(variable) mm ²	
Emergency Vacuum Orifice (optional)		
Single	1900mm ²	2.85 in ²
Double	3800mm ²	5.7 in ²
Others	Optional	

Twin valve chamber model is available. This will double all air flows.

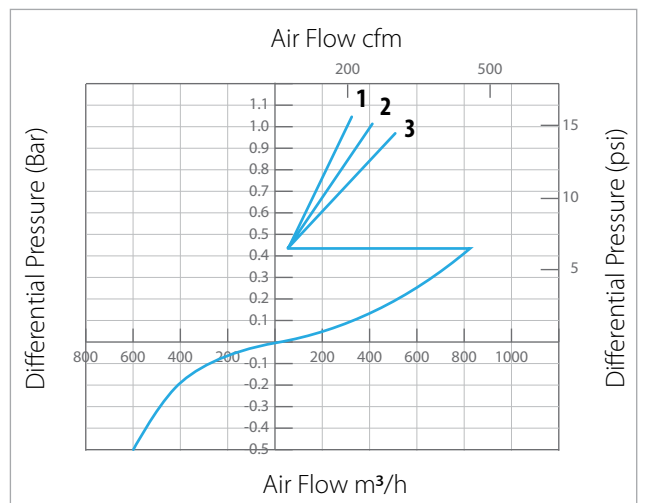
Australia	Table D 100mm (4 hole)
USA	ANSI 4" x 9" (8 hole)



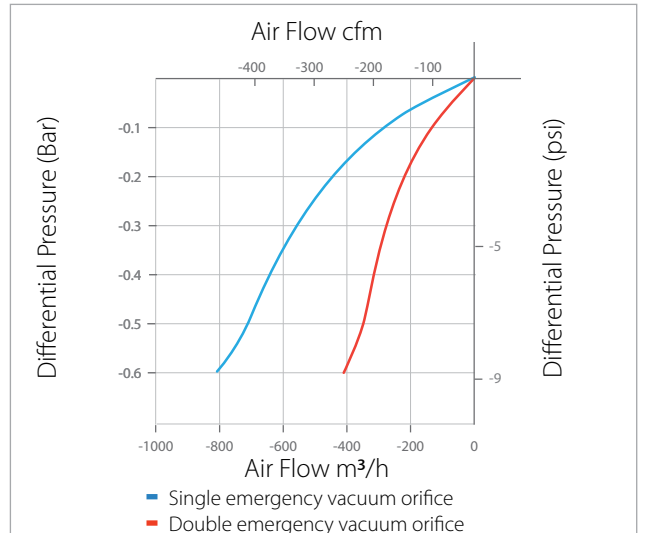
Air-Vacuum Graph (Hi Flow)



Optional Adjustable Anti-Surge



Optional Emergency Air In Vacuum Control



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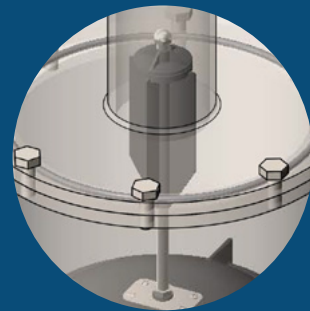
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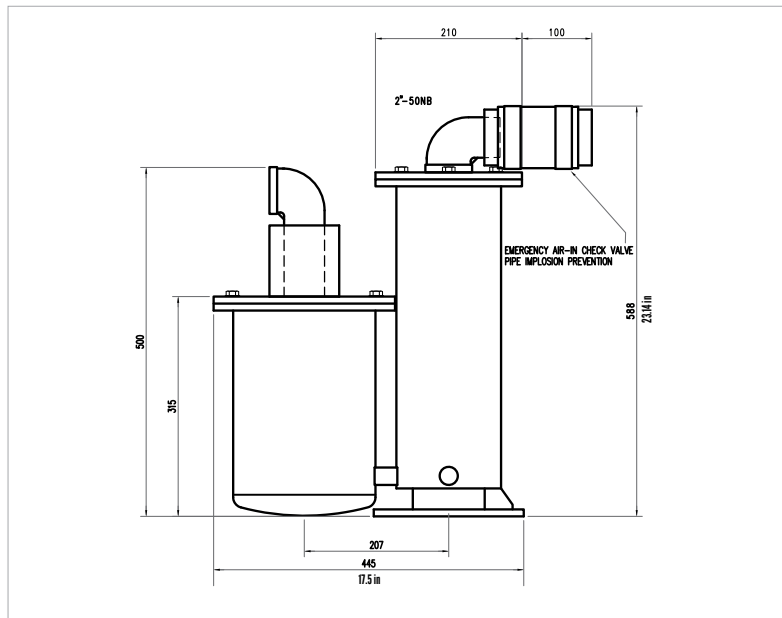
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Optional Surge Control Optional Emergency Vacuum Break



EMERGENCY Air in Vacuum Control



Adjustable Surge Control is available for all models.

Both "Switch Point" and Air Release are adjustable on-site.

Emergency Vacuum Air Flow is available for all models in case of catastrophic down stream failure.

Standard orifice size is 1900 mm² or 3800 mm².

Sizes up to 7850mm² are available.

Standard VS-4 with customisations



VS-4-S with emergency vacuum air flow orifice of 1900mm²
Odour control elimination shown



Standard VS-4 with additional air/vac chamber (doubles
airflow)

Maintenance Cost Savings

Easy **ON-SITE IN-SITU** servicing from above with one 17mm spanner.



Minimal amounts of emulsified fats may pass through the screens with little effect.
Testimonials and references are available.

Australian designed and manufactured by



VALVE DIVISION

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