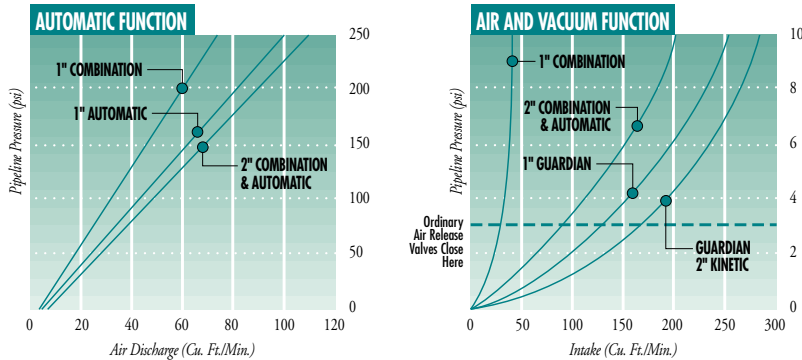


NETAFIM USA

Air Release and Vacuum Valves

Proven Design Provides More Air Release Capacity Than Other Valves of Similar Sizes



Product Advantages

- Ensures maximum protection of irrigation system with proper sizing and placement.
- Hydrodynamic float design ensures valve closure as water fills the system, remains open when air pressure reaches 12 psi (others quickly close when air pressure reaches 3 psi).
- Large capacity valves dampens water hammer (pipes and fittings from cracking or bursting).
- Unique rolling seal feature allows gradual opening and closing and self cleaning (available on 2" Combination and 1" Automatic).
- Made of corrosion-resistant fiberglass with reinforced UV protected nylon (no metal parts to rust or corrode, no need for spare parts).
- 3/4" & 1" Guardian with Shrader Valve is ideal for measuring local line pressure.
- 5 year warranty.

Applications

- 1" and 2" Combination Air/Vacuum Relief and Continuous Acting Air Vent
 - For release of large volumes of air: pump and filtration stations, along mains, at the end of mainlines.
 - At high points in pipe network or upstream of manifolds.
 - Every 1,000 feet along mainlines 6 inches and larger.
 - 1" Combination size ideal for submains with 2" to 4" diameter.
- 1" Automatic Continuous Acting Air Vent
 - For high spots where air accumulates.
- 3/4", 1" & 2" Guardian Air Release and Vacuum Relief Vent
 - Commonly used at downstream of valves, primarily at manifolds, to break vacuum caused by system draining.
 - On sloping terrain to prevent collapsing of pipes caused by vacuum when pipe networks drain.



2" Combination
Air/Vacuum and Continuous Acting Air Vent
Also Available in Polypropylene



1" Combination
Air/Vacuum and Continuous Acting Air Vent



1" Automatic
Continuous Acting Air Vent



2" Guardian
Air & Vacuum Vent



NEW!
3/4" & 1" Guardian with Shrader Valve



3/4" & 1" Guardian
Air & Vacuum Vent

Specifications

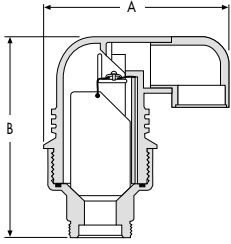
- Maximum operating pressures:
 - 2" Nylon Combination: 230 psi
 - 2" Polypropylene Combination: 200 psi
 - 1" Combination: 150 psi
 - 1" Automatic: 230 psi
 - 2" Guardian: 150 psi
 - 1" Guardian: 150 psi
 - 3/4" Guardian: 150 psi

NETAFIM
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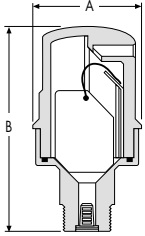
Air Release and Vacuum Valves Specifications



1" and 2" Combination Air/Vacuum Relief and Continuous Acting Air Vent

Stages of Operation

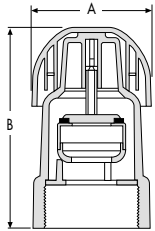
1. During start-up, the valve releases large volumes of air.
2. As the system builds pressure, the body fills with water, forcing the float upwards and closing the valve.
3. While the system is pressurized, the "automatic" function continuously expels accumulated air.
4. At shutdown, the valve's large opening allows air back into the system preventing the pipe and accessories from collapsing, and preventing suction of mud and debris.



1" Automatic Continuous Acting Air Vent

Stages of Operation

1. While the system is pressurized, air accumulates in the body, systematically dropping the rolling seal mechanism releasing the trapped air.
2. After air is expelled, water again enters the body and forces the float to close the valve.



3/4", 1" & 2" Guardian Air Release & Vacuum Relief Vent

Stages of Operation

1. The Guardian releases large quantities of air through an opening equal to a large size standard vent. As water enters, the float rises and forces the valve to close.
2. During normal flow, while the line is under pressure, the valve remains closed.
3. As the line empties, or during a drop in pressure, the float drops down and opens the valve. Air is admitted, breaking the vacuum created by the withdrawing water and prevents the collapse of pipelines and suction of soil into dripperlines.

DIMENSIONS & WEIGHT

	Part Number	Nominal Size	Dimension A	Dimension B	Weight	Orifice Size	Connection
2" Nylon Combination (Plastic Base)	65ARIB2	2"	7.09"	8.23"	2.35 lbs	1.109 sq. in.	2" NPT Male Thread
2" Nylon Combination (Brass Base)	65ARIB2-B	2"	7.09"	8.23"	4.75 lbs	1.109 sq. in.	2" NPT Male Thread
2" Polypropylene Combination (Plastic Base)	65ARIB2PPP	2"	7.09"	8.23"	1.90 lbs.	1.109 sq. in.	2" NPT Male Thread
2" Polypropylene Combination (Brass Base)	65ARIB2-BPP	2"	7.09"	8.23"	3.80 lbs	1.109 sq. in.	2" NPT Male Thread
2" Guardian	65ARIA2	2"	2.87"	4.79"	.44 lbs	1.109 sq. in.	2" NPT Female Thread
1" Combination	65ARIB1	1"	3.93"	5.51"	.66 lbs	0.390 sq. in.	1" NPT Male Thread
1" Automatic	65ARIS1	1"	2.95"	5.51"	.65 lbs	0.140 sq. in.	1" NPT Male Thread
1" Guardian	65ARIA100	1"	2.36"	4.79"	.35 lbs	0.703 sq. in.	1" NPT Male Thread
1" Guardian with Shrader Valve	65ARIA100S	1"	2.55"	5.11"	.44 lbs	0.486 sq. in.	1" NPT Male Thread
3/4" Guardian	65ARIA075	3/4"	2.36"	5.11"	.22 lbs	0.486 sq. in.	3/4" NPT Male Thread
3/4" Guardian with Shrader Valve	65ARIA075S	3/4"	2.55"	5.11"	.44 lbs	0.486 sq. in.	3/4" NPT Male Thread

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