

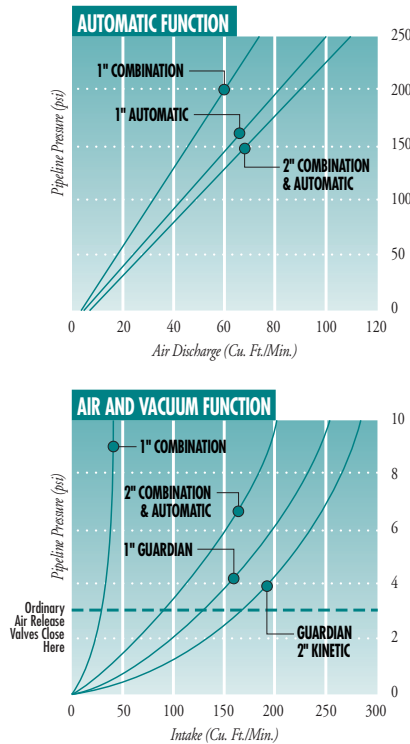


## Air Vents

### 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.
- Large capacity valves dampen water hammer preventing pipes and fittings from cracking or bursting.
- Unique patented rolling seal feature allows gradual opening, closing and self-cleaning - available on 1" and 2" Combination and 3/4" and 1" Automatic.
- Made of corrosion-resistant reinforced UV protected nylon - no metal parts to rust or corrode, no need for spare parts.
- Guardian Air Vent with Shrader Valve is ideal for measuring local line pressure.



#### Applications

- 1" and 2" Combination Air/Vacuum Relief and Continuous Acting Air Vents
  - 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.
- 2" Combination Air Release/Vacuum Guard and Continuous Acting Air Vent
  - Releases air at pump priming and maintains the prime by not allowing air intake in long and/or undulating suction lines to pump stations.
  - Releases entrapped air while ensuring continuous prime at centrifugal pumps.
  - Builds up siphons with air release, maintains the siphon by continuously releasing air and not allowing air intake.
- 3/4" & 1" Automatic Continuous Acting Air Vents
  - For high spots where air accumulates.
- 1" Continuous Acting/Vacuum Guard Air Vent
  - For release of entrapped air while ensuring continuous pump prime with no air intake in centrifugal pumps and pump suction lines.
  - Protects mechanical seals in vertical pumps by not allowing air to accumulate in the stuffing boxes.
  - Maintain siphons with continuous air release while not allowing air intake.
- 3/4", 1", 2" & 3" Guardian Air and Vacuum Relief Air Vents
  - Commonly used 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 Relief and  
Continuous Acting Air Vent



**2" Combination**  
Air Release/Vacuum Guard and  
Continuous Acting Air Vent



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



**3/4" & 1" Automatic**  
Continuous Acting Air Vent



**3/4" & 1" Automatic**  
Continuous Acting  
Vacuum Guard Air Vent



**2" & 3" Guardian**  
Air & Vacuum Relief  
Air Vent



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



**3/4" & 1" Guardian**  
with Shrader Valve

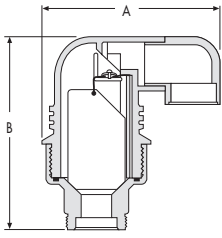
#### Specifications

- Maximum operating pressures:
  - 2" Nylon Combination: 230 psi
  - 2" Polypropylene Combination: 150 psi
  - 1" Combination: 150 psi
  - 3/4" & 1" Automatic: 230 psi
  - 2" & 3" Guardian: 150 psi
  - 1" Guardian: 150 psi
  - 3/4" Guardian: 150 psi
- Five year warranty



**NETAFIM USA**  
5470 E. Home Ave. • Fresno, CA 93727  
888.638.2346 • 559.453.6800  
FAX 800.695.4753  
[www.netafimusa.com](http://www.netafimusa.com)

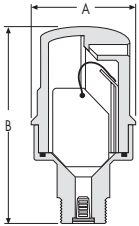
# Air Vent Specifications



## Combination Air/Vacuum Relief and Continuous Acting Air Vent

### Stages of Operation

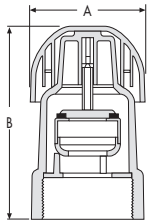
1. During start-up, the valve releases large volumes of air.
2. As the system builds pressure, the body fills with water, forcing the float upwards and closing the valve.
3. While the system is pressurized, the "automatic" function continuously expels accumulated air.
4. At shutdown, the valve's large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



## 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.



## 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	Connection
2" Nylon Combination (Plastic Base)	65ARIB2	2"	7.09"	8.23"	2.35 lbs	2" NPT Male Thread
2" Nylon Combination (Brass Base)	65ARIB2-B	2"	7.09"	8.23"	4.75 lbs	2" NPT Male Thread
2" Polypropylene Combination (Plastic Base)	65ARIB2PP	2"	7.09"	8.23"	1.90 lbs	2" NPT Male Thread
2" Polypropylene Combination (Brass Base)	65ARIB2-BPP	2"	7.09"	8.23"	3.80 lbs	2" NPT Male Thread
2" Nylon Combination Vacuum Guard	65ARIB2VM	2"	8.09"	8.23"	2.50 lbs	2" NPT Male Thread
2" Guardian	65ARIA2	2"	2.87"	4.79"	.44 lbs	2" NPT Female Thread
3" Guardian	65ARIA3	3"	4.10"	6.50"	1.3 lbs	3" NPT Female Thread
1" Combination	65ARIB1	1"	3.93"	5.51"	.66 lbs	1" NPT Male Thread
1" Combination (Brass Base)	65ARIB1-B	1"	3.93"	5.51"	1.54 lbs	1" NPT Male Thread
1" Automatic	65ARIS1	1"	2.95"	5.51"	.65 lbs	1" NPT Male Thread
1" Automatic Vacuum Guard	65ARIS1VM	1"	3.20"	5.51"	.66 lbs	1" NPT Male Thread
1" Guardian	65ARIA100	1"	2.36"	4.79"	.35 lbs	1" NPT Male Thread
1" Guardian with Shrader Valve	65ARIA100S	1"	2.55"	5.11"	.44 lbs	1" NPT Male Thread
3/4" Guardian	65ARIA075	3/4"	2.36"	5.11"	.22 lbs	3/4" NPT Male Thread
3/4" Guardian with Shrader Valve	65ARIA075S	3/4"	2.55"	5.11"	.44 lbs	3/4" NPT Male Thread
3/4" Automatic Vacuum Check	65ARIS075VM	3/4"	3.20"	5.51"	.56 lbs	3/4" NPT Male Thread

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