

AIR VENTS

COMBINATION AIR/VACUUM AND CONTINUOUS ACTING AIR VENTS

PROVEN DESIGN PROVIDES MORE AIR RELEASE CAPACITY THAN OTHER VENTS OF SIMILAR SIZES



2" COMBINATION
Air/Vacuum and
Continuous Acting Air Vent



2" COMBINATION
Air Release/Vacuum Guard and
Continuous Acting Air Vent



1" COMBINATION
Air/Vacuum and
Continuous Acting Air Vent



3/4" & 1" AUTOMATIC
Continuous Acting
Air Vent



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

PRODUCT ADVANTAGES

- Ensures maximum protection of irrigation system with proper sizing and placement.
- Aerodynamic float design ensures vent closure as water fills the system, remains open when air pressure reaches 12 psi.
- Large capacity vents dampen water hammer preventing pipes and fittings from cracking or bursting.
- Unique patented rolling seal feature allows gradual opening, closing and self-cleaning.
- Made of corrosion-resistant reinforced UV protected nylon - no metal parts to rust or corrode, no need for spare parts.

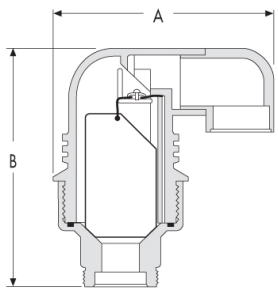
APPLICATIONS

- **1" & 2" COMBINATION AIR/VACUUM AND CONTINUOUS ACTING AIR VENTS**
 - For discharge 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 & 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.
- **3/4" & 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.

SPECIFICATIONS

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

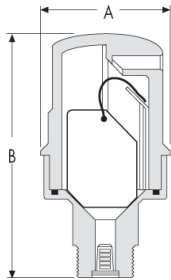
COMBINATION AIR/VACUUM AND CONTINUOUS ACTING AIR VENTS



COMBINATION AIR/VACUUM AND CONTINUOUS ACTING AIR VENT

STAGES OF OPERATION

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

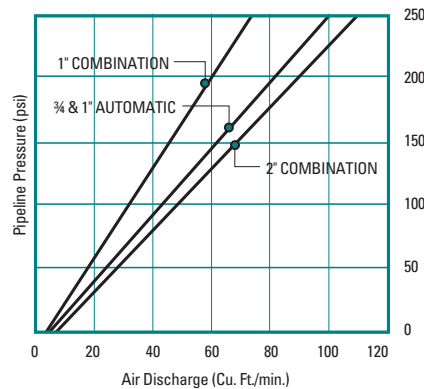


AUTOMATIC CONTINUOUS ACTING AIR VENT

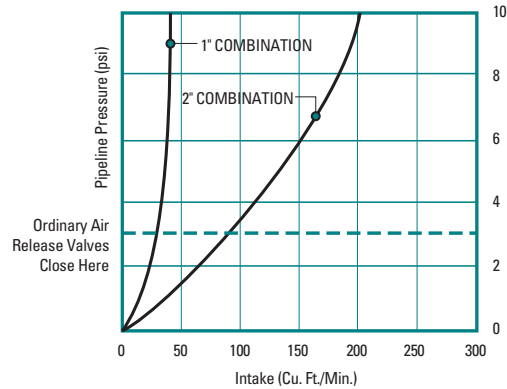
STAGES OF OPERATION

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 released, water again enters the body and forces the float to close the air vent.

AUTOMATIC FUNCTION



AIR AND VACUUM FUNCTION



DIMENSIONS & WEIGHT

	MODEL 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
1" Combination	65ARIB1	1"	3.93"	5.51"	0.66 lbs	1" NPT Male Thread
1" Combination (Brass Base)	65ARIB1-B	1"	3.93"	5.51"	1.54 lbs	1" NPT Male Thread
3/4" Automatic	65ARIS075	3/4"	3.20"	5.51"	0.56 lbs	3/4" NPT Male Thread
3/4" Automatic Vacuum Guard	65ARIS075VM	3/4"	3.20"	5.51"	0.56 lbs	3/4" NPT Male Thread
1" Automatic	65ARIS1	1"	2.95"	5.51"	0.65 lbs	1" NPT Male Thread
1" Automatic Vacuum Guard	65ARIS1VM	1"	3.20"	5.51"	0.66 lbs	1" NPT Male Thread



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