

AIR VENT INSTALLATION GUIDELINES

BASIC PRINCIPLES OF AIR VENTS

PROBLEMS RELATED TO AIR IN PIPELINES

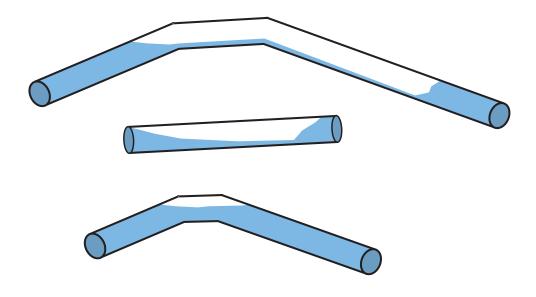
- Damage caused by local water hammer and line surges.
- Increased energy costs caused by obstruction of flow in pipelines and resulting head losses.
- Crop damage caused by inadequate water supply due to obstruction of flow by air pockets.
- Faulty water meter readings resulting in inadequate water supply.
- Corrosion at the crown of metal pipes caused by air pockets.
- Acceleration of cavitation.

PROBLEMS AND DAMAGES RELATED TO LACK OF AIR IN PIPELINES

- Suction of mud and dirt through the drippers.
- Suction of seals, gaskets and internal accessories into the pipeline.
- Uncontrolled suction of injected chemicals or fertilizers into the system.
- Pipe or accessory collapses due to sub-atmospheric (negative) pressures.
- In some cases, the absence of an air cushion can increase the damages of surge and slam phenomena.

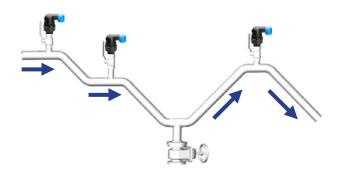
LOCATION OF ENTRAPPED AIR IN THE PIPELINE

Air pockets developing at critical points along the pipeline.



AIR VENT INSTALLATION GUIDELINES

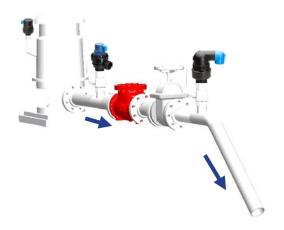
INSTALLATION AT THE HIGH POINTS IN A LINE



INSTALLATION ON A LONG FLAT LINE (RECOMMENDED EVERY 500 YARDS)



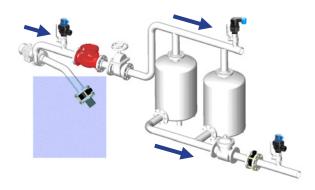
INSTALLATION AT PUMPS AND PUMP STATIONS



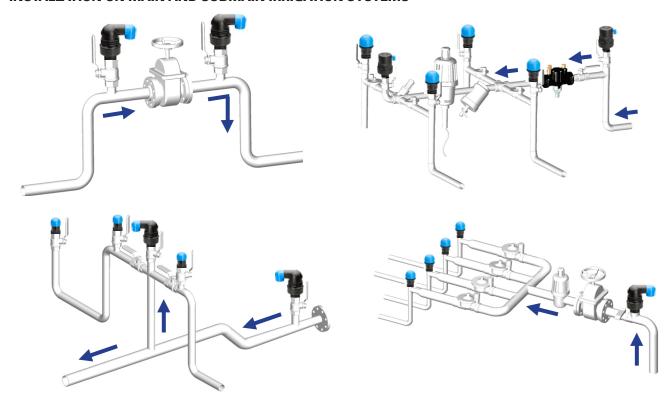
NOTE: It is recommended to install an Automatic Air Vent directly before the pump and a Dynamic Air Vent directly after the pump and before the pump check valve. It is recommended to put another Combination Air Vent after the pump check valve.

This Combination Air Vent will intake air when pump is shut down and the check valve closes. It will also discharge air from the line when the water column returns.

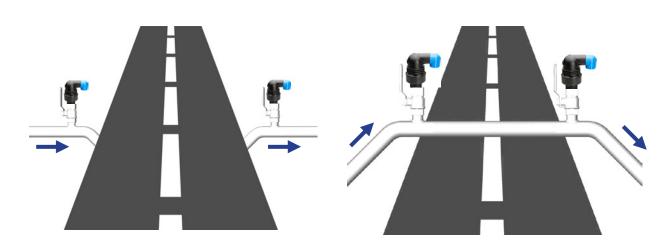
INSTALLATION AT FILTRATION SYSTEMS



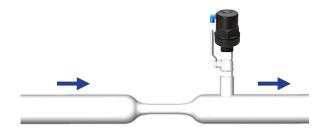
INSTALLATION ON MAIN AND SUBMAIN IRRIGATION SYSTEMS



INSTALLATION ON A WATER LINE THAT CROSSES UNDER OR ABOVE A ROAD OR DITCH



INSTALLATION AFTER PRESSURE REDUCER



AIR VENTS

COMBINATION AIR/VACUUM AND CONTINUOUS ACTING AIR VENTS









* Can be used anywhere a 2" Combination is used

AUTOMATIC CONTINUOUS ACTING AIR VENTS



GUARDIAN AIR	AACHIIIM	AIR VENTS
GUANDIAN AIN	/ VAGUUIVI	AID AEIAI 9



ORDERING INFORMATION			
MODEL NUMBER	SIZE	ТҮРЕ	
65ARIB1		COMBINATION - NYLON	
65ARIB1-B	1"	COMBINATION - NYLON - BRASS BASE	
65ARIB1-150	Ī	COMBINATION - POLYPROPYLENE	
65ARIB2		COMBINATION - NYLON	
65ARIB2-B		COMBINATION - NYLON - BRASS BASE	
65ARIB2VM		COMBINATION - NYLON - VACUUM GUARD	
65ARIB2PP		COMBINATION - POLYPROPYLENE	
65ARIB2PRO		PRO - POLYPROPYLENE	
65ARIDY2	2"	DYNAMIC - NYLON	
65ARIDY3	3"	DYNAMIC - NYLON	
65ARIS075	3/4"	AUTOMATIC - NYLON	
65ARIS075VM	3/4	AUTOMATIC - NYLON - VACUUM GUARD	
65ARIS1	4.4	AUTOMATIC - NYLON	
65ARIS1VM	1"	AUTOMATIC - NYLON - VACUUM GUARD	
65ARIA075	0/4#	GUARDIAN - NYLON	
65ARIA075S	3/4"	GUARDIAN - NYLON - SHRADER VALVE	
65ARIA100	1#	GUARDIAN - NYLON	
65ARIA100S	1"	GUARDIAN - NYLON - SHRADER VALVE	
65ARIA2	2"	GUARDIAN - NYLON	
65ARIA3	3"	GUARDIAN - NYLON	

For additional questions, please contact your Netafim District Sales Manager or Netafim USA Customer Service at 888-638-2346.



NETAFIM USA 5470 E. Home Ave. Fresno, CA 93727 CS 888 638 2346 www.netafimusa.com