

ARV 50 Series

# Air Release / Vacuum Relief Valves

3/4", 1", 1.5", 2", 3"

Air Release / Vacuum Relief valves are designed to provide efficient air releasing and intake for water pipelines when the system is started or shut off. The valves ensure the safe expulsion of air during pipe filling and allow air intake during negative pressure situations preventing damage to pipes and accessories. constructed of reinforced plastics, these valves are durable, weather-resistant, and corrosion-resistant, making them ideal for a wide range of agriculture irrigation and industrial applications.



## HIGHLIGHTS

- Lightweight Construction: High-strength durable, weather-resistant reinforced plastic valves ensure easy installation and long-lasting durability.
- Efficient Air Expulsion and Intake: Large volume air release/intake capability during pipe filling and pump shut off.
- Low Pressure Sealing
- Debris Protection: Venting passage equipped with screen to prevent debris intrusion and blockages.

## APPLICATIONS

### Kinetic Air Expulsion:

When the pipeline is being filled, the air release valve remains open, expelling surplus air outside the system. Once the pipe is filled with water, the valve closes tightly, ensuring a secure and leak-free seal.

### Kinetic Air Admission:

During negative pressure or vacuum conditions within the pipe, the air release valve opens to allow air inside, preventing damage to pipes and accessories by avoiding vacuum-induced stress.

## Technical Data

Model No		AVR50/AVR51	AVR53/AVR54	AVR55	AVR56	AVR57
Inlet Connection		¾"/1" (20/25 mm)	¾"/1" (20/25 mm)	1.5" (40 mm)	2" (50 mm)	3" (80 mm)
Maximum Working Pressure	bar	8	12			
Connection	Type	0.5-16 (8-232)			0.7-16	
Min. Recommended Flow Rate		Male Threaded (BSP/NPT)	Male Threaded (BSP/NPT)	Male Threaded (BSP/NPT)		Female Threaded (BSP/NPT)
Sealing Pressure	bar	0.5	0.5	0.5		
Material of Construction		PPGF	PPGF	PPGF		PAGF

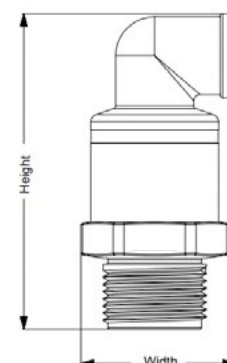
## Material Specification

Part No	Description	Model No.				
		AVR50/AVR51	AVR53/AVR54	AVR55	AVR56	AVR57
1	Bottom	PPFG	PAGF	PAGF	PAGF	-
2	Bottom O-ring	NBR	NBR	NBR	NBR	-
3	Ball Retainer	POM	PP	PP	-	PAGF
4	Ball/Float	PP	PP	PP	EX-PP	POM
5	Retainer	PPGF	PPGF	PPGF	-	-
6	Seal O-ring/Washer	EPDM	EPDM	EPDM	EPDM	EPDM
7	Body	PPGF	PPGF	PPGF	PPGF	PAGF
8	Cap Inner	PA	PP	PP	-	-
9	Cap/Elbow	PA	PP	PP	PPGF	PAGF
10	Float Cap	-	-	-	-	PP



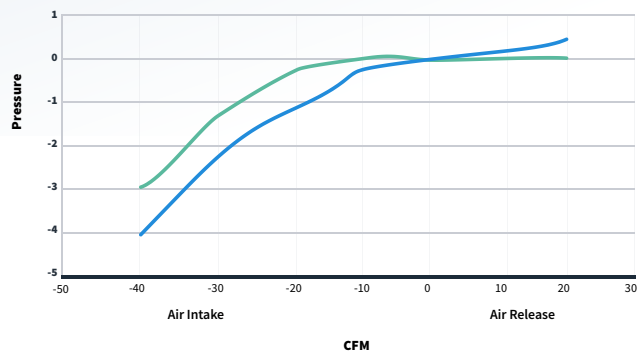
## Product Dimensions

Part No	Clear Opening Diameter	Height	Width	Weight
	CM	CM	CM	KG
AVR50/AVR51	1.7	13.3	4.6	0.084
AVR53/AVR54	1.7	14.4	5.5	0.107
AVR55	2.7	18.8	8	0.275
AVR56	3.4	16.8	10.1	0.58
AVR57	5	25.2	11	0.536

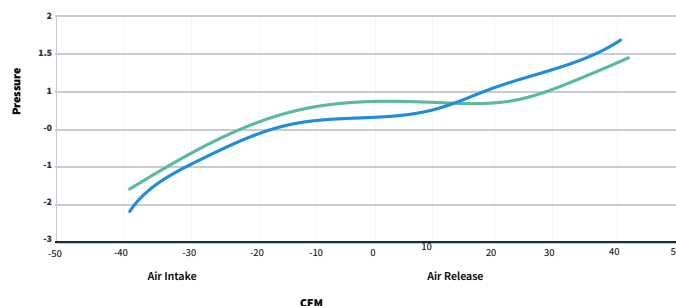


## Performance Graphs – Plastic Air Release Valves (Kinetic)

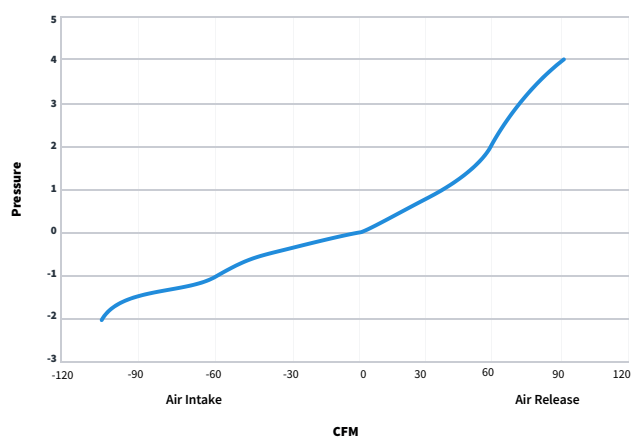
### Model AVR50/AVR51



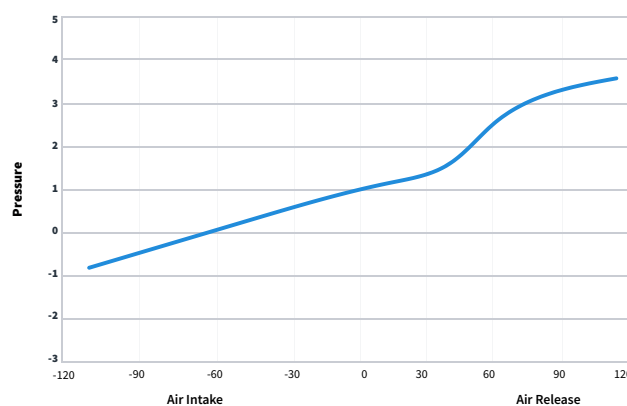
### Model AVR53/AVR54



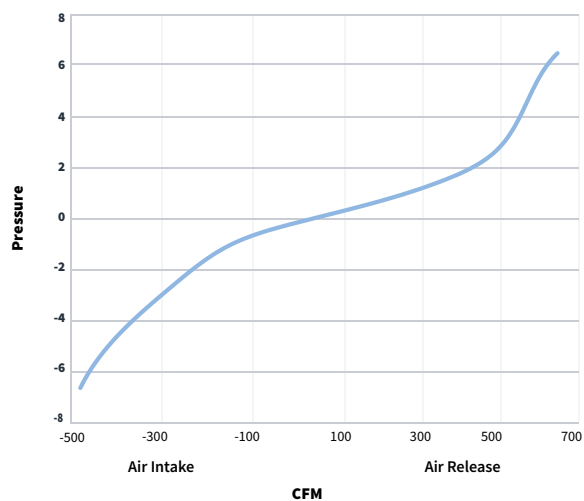
### Model AVR55



### Model AVR56



### Model AVR57



**Keep in touch!**



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