

# Air Release / Vacuum Relief Valves

(Metal & Plastic)

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. Available in both metal (aluminum) and reinforced plastics, these valves are durable, weather-resistant, and corrosion-resistant, making them ideal for a wide range of agriculture irrigation and industrial applications.



Plastic Valves

Metal Valves

## HIGHLIGHTS

- **Lightweight Construction:** High-strength aluminum (metal) or 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. 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 (Plastic ARV)

Model No		688P	87P/88P	87PM/88PM	89P	90P	91P
Inlet Connection		1" (25 mm)	¾"/1" (20/25 mm)	¾"/1" (20/25 mm)	1.5" (40 mm)	2" (50 mm)	3" (80 mm)
Maximum Working Pressure	BAR	6	8	12			
	PSI	85	144	171			
Connection	Type	Male Threaded (BSP/NPT)	Male Threaded (BSP/NPT)	Male Threaded (BSP/NPT)	Male Threaded (BSP/NPT)		Female Threaded (BSP/NPT)
Sealing Pressure	BAR	0.3	0.5	0.5	0.5		
	PSI	5	7	7	7		
Material of Constructions		PP	PPGF	PPGF	PPGF		PAGF

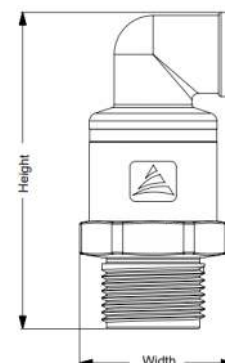
## Material Specification

Part No	Description	Model No					
		688P	87P/88P	87PM/88PM	89P	90P	91P
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	PP	EX-PP	POM
5	Retainer	PP	PPGF	PPGF	PPGF	-	-
6	Seal O-ring/Washer	EPDM	EPDM	EPDM	EPDM	EPDM	EPDM
7	Body	PP	PPGF	PPGF	PPGF	PPGF	PAGF
8	Cap Inner	-	PA	PP	PP	-	-
9	Cap/Elbow	PP	PA	PP	PP	PPGF	PAGF
10	Float Cap	-	-	-	-	-	PP

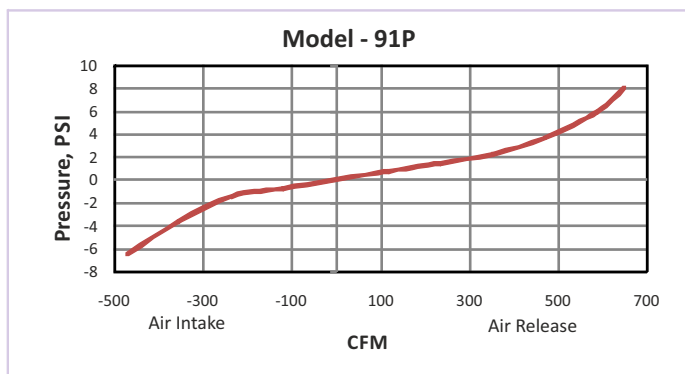
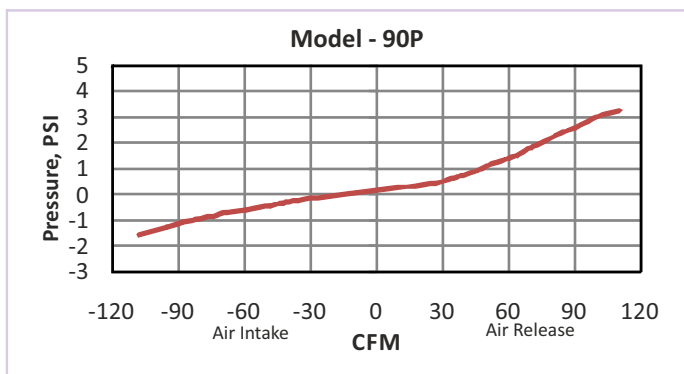
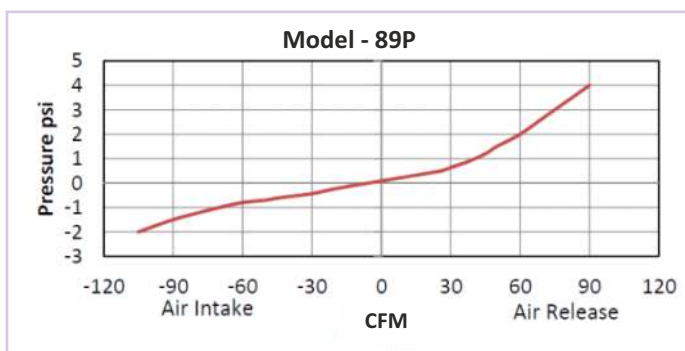
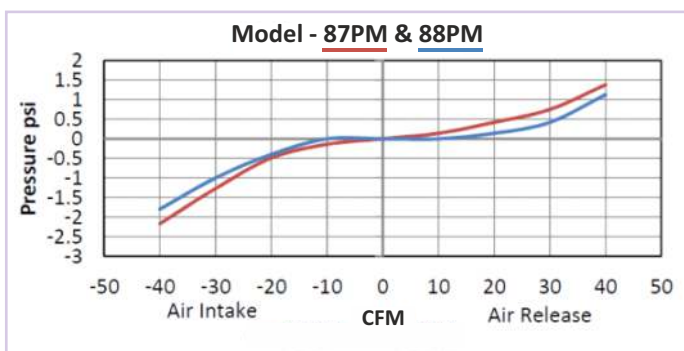
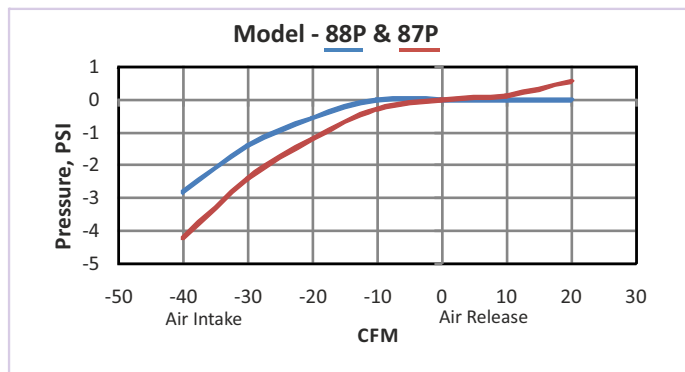
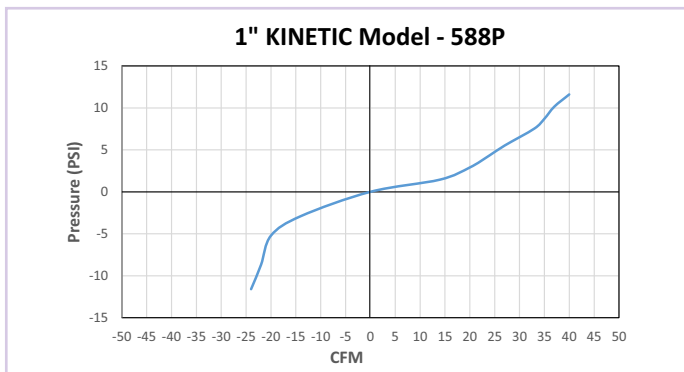


## Product Dimensions

Part No	Clear Opening Diameter		Height		Width		Weight	
	CM	INCH	CM	INCH	CM	INCH	KG	LBS
688P	2	25/32	10.2	4 1/64	4.7	1 27/32	0.048	0.106
87/88P	1.7	43/64	13.3	5 15/64	4.6	1 13/16	0.084	0.185
87/88PM	1.7	43/64	14.4	5 43/64	5.5	2 11/64	0.107	0.236
89P	2.7	1 1/16	18.8	7 13/32	8	3 5/32	0.275	0.567
90P	3.4	1 11/32	16.8	6 39/64	10.1	3 31/32	0.58	1.278
91P	5	1 31/32	25.2	9 59/64	11	4 21/64	0.536	1.182



# Performance Graphs – Plastic Air Release Valves (Kinetic)



## Technical Data (Metal ARV)

Model No		HT-88	HT-89	HT-90	HT-91	HT-92
Inlet Connection		1" (25 mm)	1.5" (40 mm)	2" (50 mm)	3" (80 mm)	4" (100 mm)
Maximum Working Pressure	BAR	10			7	
	PSI	150			100	
Connection	Type	Female Threaded (BSP/NPT)				
Sealing Pressure	BAR	0.3 – 0.5		0.5 – 0.7		
	PSI	5 - 7		7 - 10		
Material of Constructions		Aluminium				

## Product Dimensions

Models	Clear Opening Dia.		Height		Width		Weight	
	CM	INCH	CM	INCH	CM	INCH	KG	LBS
HT-88	1.7	$43/64$	10.7	$4\ 7/32$	5.5	$2\ 11/64$	0.25	0.55
HT-89	3	$1\ 3/16$	12.4	$4\ 7/8$	8.3	$3\ 17/64$	0.525	1.16
HT-90	4.8	$1\ 57/64$	14.6	$5\ 3/4$	8.8	$3\ 15/32$	0.75	1.65
HT-91	6.5	$2\ 9/16$	20	$7\ 7/8$	12.4	$4\ 7/8$	1.65	3.63
HT-92	8.7	$3\ 27/64$	24.8	$9\ 49/64$	18	$7\ 3/32$	3.05	6.72

## Performance Graph

