Continuous Air Release / Vacuum Relief Valves (Metal & Plastic)

Continuous air release valves are designed to provide efficient air releasing and intake for water pipelines when the system is started or shut off along with residual air removal generated during the working. Available in both metal (aluminum) and plastic (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 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.
- **Versatile and Secure Fittings:** The plastic version includes a threaded elbow outlet for flexible installation.

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.

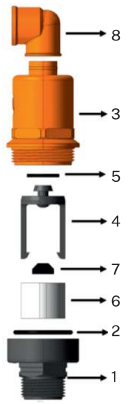
Residual Air Expulsion (Automatic Air):
The air release valve constantly purges residual air generated in the system, even under pressurized conditions. This prevents air pockets from forming, which could affect system performance.

Technical Data (Plastic CARV)

Model No		87CPM/88CPM	88CPDX	90CP
Connection Size		¾"/1" (20/25 mm)	1" (25 mm)	2" (50 mm)
Connection Type		Male Threaded (BSP/NPT)		
Maximum Working Pressure	BAR	16		
	PSI	232		
Sealing Pressure	BAR	0.5	0.1	0.3
	PSI	7	2	5

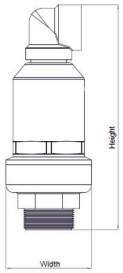
Material Specifications

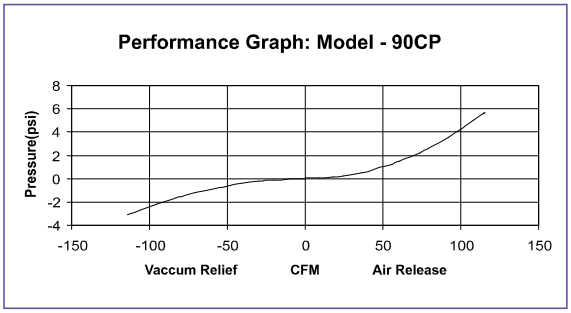
Part No	Description	Model No		
		87CPM/88CPM	88CPDX	90CP
1	Bottom	PAGF	PAGF	PAGF
2	Bottom O-ring	EPDM/NBR	EPDM/NBR	EPDM/NBR
3	Body	PAGF	PAGF	PAGF
4	Float Guide	PPGF	PPGF	PPGF
5	Primary Seal washer	EPDM	EPDM	EPDM
6	Float	EX-PP	EX-GPPS	EX-PP
7	Secondary Seal	EPDM	EPDM	EPDM
8	Elbow	PAGF	PAGF	PAGF
9	Float Guide Stopper	PPGF	-	-

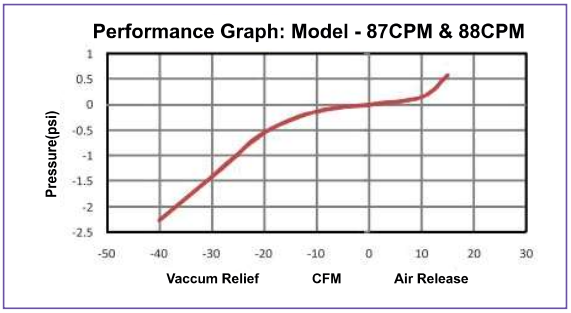


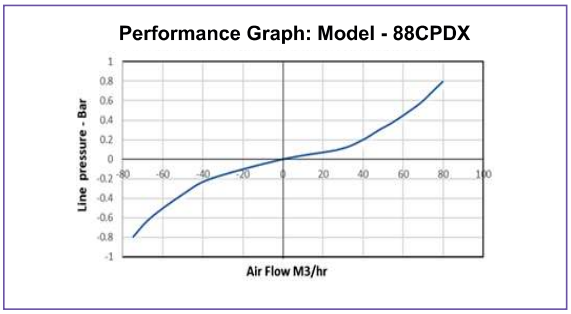
Product Dimensions

Part No	Clear Opening Diameter		Height		Width		Weight	
	CM	INCH	CM	INCH	CM	INCH	KG	LBS
87/88CPM	1.7	$^{43}/_{64}$	14.5	$5\,^{45}/_{64}$	5.4	$2\,^{1}/_{8}$	0.12	0.264
88CPDX	2.1	$^{53}/_{64}$	20	$7\,^{7}/_{8}$	9.3	$3\,^{21}/_{32}$	0.31	0.683
90P	3.4	$1\,^{11}/_{32}$	26.9	$10\,^{19}/_{32}$	10.1	$3\,^{31}/_{32}$	0.684	1.51









Technical Data (Metal CARV)

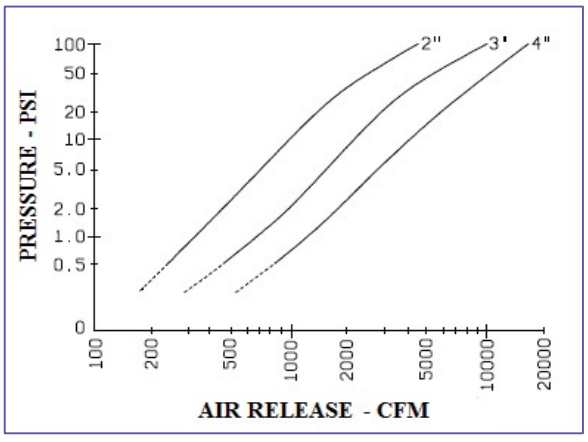
Model No		AQ-90C	AQ-91C	AQ-92C
Inlet Connection		2" / (50mm)	3" / (80mm)	4" / (100mm)
Maximum Working Pressure	BAR	0.5-10	0.5-7	
	PSI	7-150	7-100	
Connection	Type	Female Threaded (BSP/NPT)		
Sealing Pressure	BAR	0.5		
	PSI	7		
Material of Constructions		Aluminium		

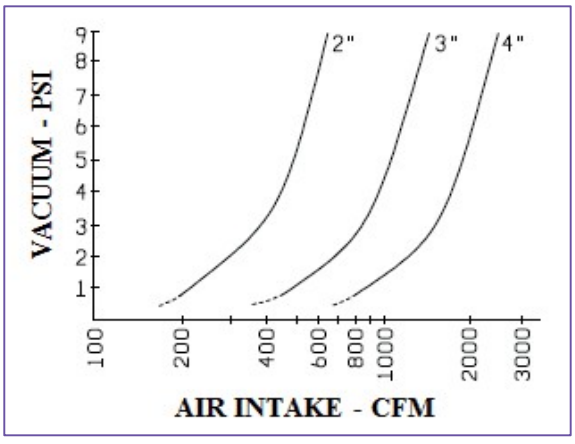
Material Specifications

Part No	Description	Model No		
		87CPM/88CPM	88CPDX	90CP
1	Bottom	PAGF	PAGF	PAGF
2	Bottom O-ring	EPDM/NBR	EPDM/NBR	EPDM/NBR
3	Body	PAGF	PAGF	PAGF
4	Float Guide	PPGF	PPGF	PPGF
5	Primary Seal washer	EPDM	EPDM	EPDM
6	Float	EX-PP	EX-GPPS	EX-PP
7	Secondary Seal	EPDM	EPDM	EPDM
8	Elbow	PAGF	PAGF	PAGF
9	Float Guide Stopper	PPGF	-	-

Product Dimensions

Part No	Clear Opening Diameter		Height		Width		Weight	
	CM	INCH	CM	INCH	CM	INCH	KG	LBS
AQ-90C	5.1	$2\,^{1}/_{64}$	26.6	$10\,^{15}/_{32}$	13.5	$5\,^{5}/_{16}$	2.64	5.82
AQ-91C	7.7	$3\,^{1}/_{32}$	28.6	$11\,^{17}/_{64}$	17.6	$6\,^{59}/_{64}$	4.64	10.23
AQ-92C	7.7	$3\,^{1}/_{32}$	29.8	$11\,^{47}/_{64}$	17.6	$6\,^{59}/_{64}$	5	11.02





1 CFM = 1.699 m^3/hr
1 PSI = 0.703 mwc