

Polymeric Combination air valve

Automat Combination Air Valves for Irrigation Systems and Water Network, Automat's high-quality combination air valves are designed to ensure reliable performance across irrigation and water delivery systems. They efficiently expel air during system pressurization and continue releasing small air pockets during regular operation. When the system shuts down, the valves allow large volumes of air to enter, preventing vacuum damage during drainage. Thanks to their advanced hydraulic orifice design, these valves provide superior protection against air accumulation and vacuum formation, while maintaining excellent sealing even under low-pressure conditions.



HIGHLIGHTS

- **Efficient Air Expulsion and Intake:** Due to advanced hydraulic design, Large volume of air release/intake capability during pipe filling and pump shut off.
- **Low Pressure Sealing:** New sealing mechanism.
- **Debris Protection:** Venting passage equipped with screen to prevent debris intrusion.
- **Pressure Gauge:** The unit is equipped with optional pressure port.



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 forming, which could affect system performance.

Technical Data (Plastic CARV)

Model No		88CPDX	90CP
Connection Size		1" (25 mm)	2" (50 mm)
Connection Type		Male Threaded (BSP/NPT)	
Maximum Working Pressure	BAR	16	
	PSI	227	
Sealing Pressure	BAR	0.1	0.1
	PSI	1.4	1.4

Other Specification

	1" CPDX		2" 90 CP	
	mm ²	In ²	mm ²	In ²
Kinetic area	340	0.53	908	1.41
Automat area	12.8	0.02	12.8	0.02

Material Specification:

1. Body, Base & Cover – PAGF30
2. Rubber parts (Seals & O rings) – EPDM/NBR

Spare Parts list:

- Body Assembly: Body & Cap
 Float Assembly: Float, Guide and Seals
 Base Assembly: Base and o ring

Product Dimensions

		88CPDX	90CP
Height	mm	200	269
	Inch	7.9	10.6
Width	mm	94	102
	Inch	3.7	4
Weight	Kg	0.3	0.7
	Lbs	0.7	1.5

