

## C TYPE KINETIC VALVES

C-type kinetic valves are of high quality for various irrigation systems and operating conditions. When the system is filled with water, the air valve discharges a large amount of air from the pipe; When the system is under pressure, the air valve effectively discharges a small amount of air from the pipe; When the system is emptied, the air valve draws in a large amount of air. Adopted advanced aerodynamic design, the valve provides excellent protection against air accumulation and vacuum formation, with improved sealing in low pressure conditions.



CAV-25



CAV-40



CAV-50-M



CAV-50-L



CAV-50

## TYPICAL APPLICATION

C type kinetic valves can prevent the air from accumulating or eliminate negative pressure apply in filtration pipelines, water supply system, nearby water meter & control valve and pipelines for residential area and industrial field.

## FEATURE & ADVANTAGE

- ✓ Advanced aerodynamic design ; Prevents premature closing, without disturbing air intake or discharge;
- ✓ One-piece floating ball design ensures ontime shutting of outlet while the high speed airflow occurs;
- ✓ Dynamic sealing prevents leakage under low pressure conditions (0.2 bar/2.9 psi);
- ✓ PA and PP material with corrosion, acid and alkaline resistant ; lower maintenance and increased life span;
- ✓ Multi-installation sizes for various market demands.

## HOW IT WORKS

### When system is filling with water:

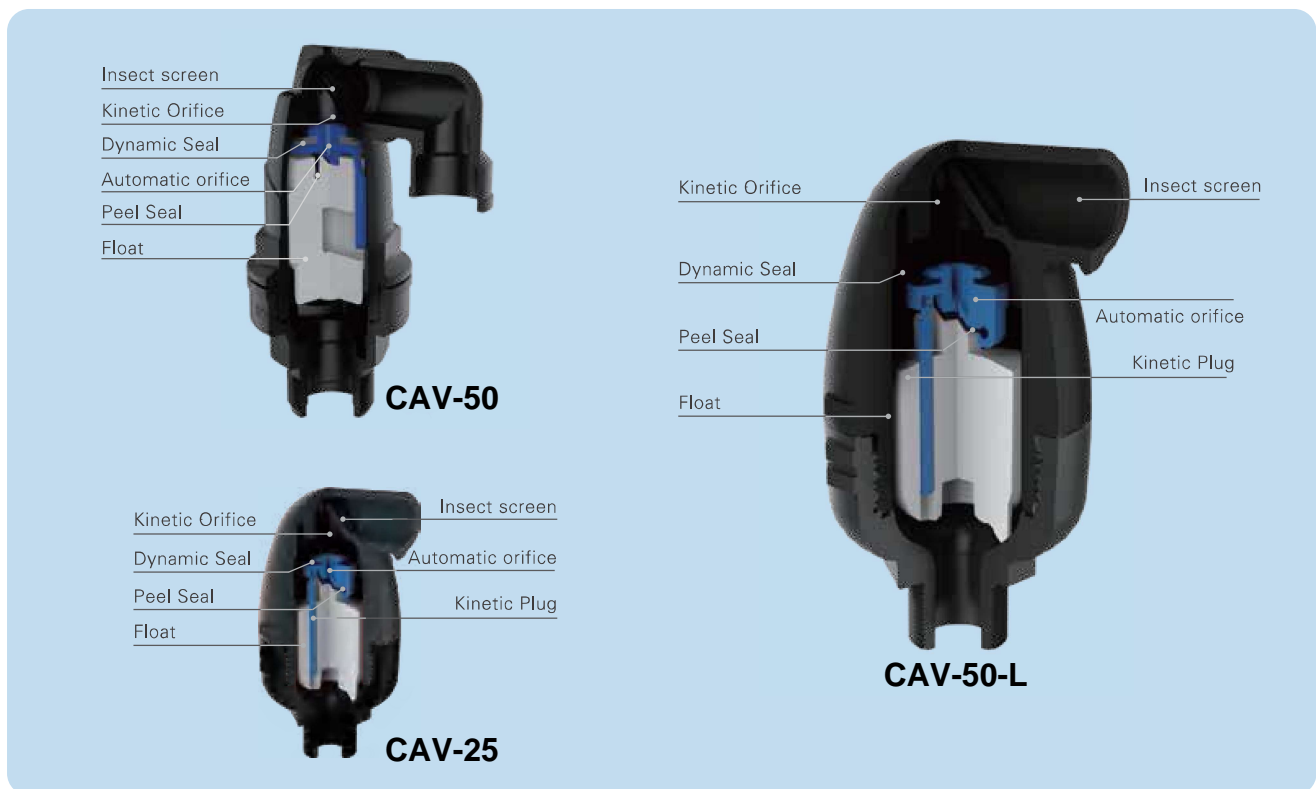
A large amount of air is discharged from the kinetic inlet and exhaust port. After the water entered the chamber, the float rises and closes the inlet and exhaust port. With aerodynamic design and the anti-blow design, the floating ball ensures shutting of outlet on the right time while the high speed airflow occurs.

### Under Pressure:

When the system is under pressure, air accumulates above the valve cavity. When the amount of air increases, the level inside the valve drops and the float drops as well. At this time, the automatic micro-exhaust port opens to discharge the accumulated air. The level rises, the float rises, and then the automatic micro-exhaust port closes.

### System draining:

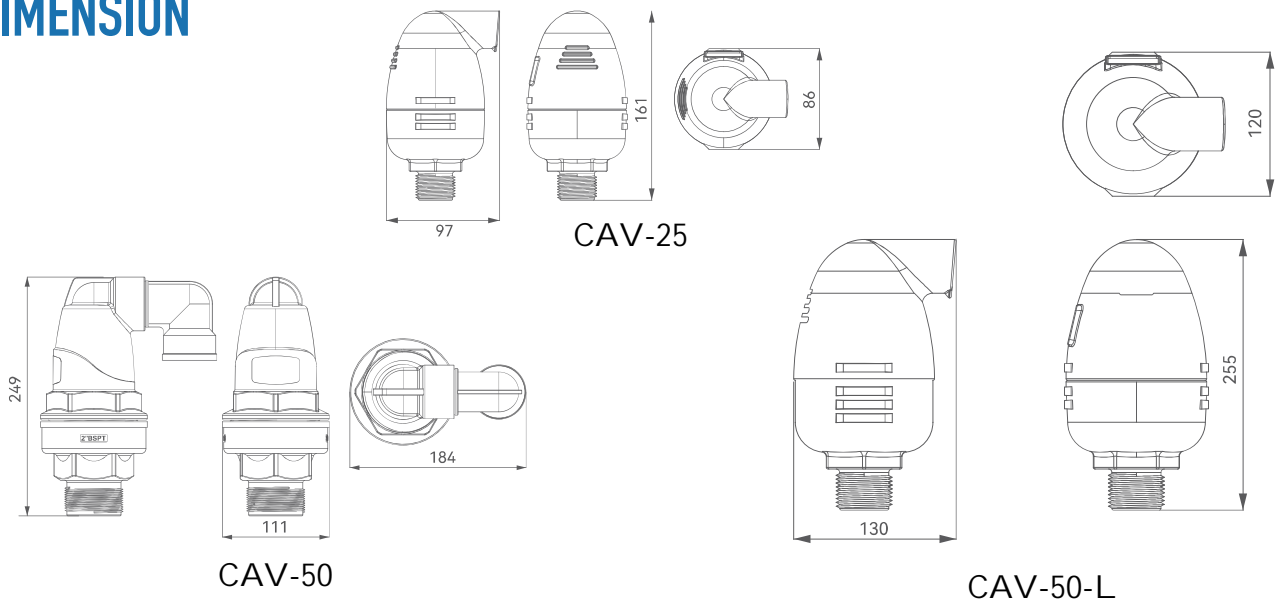
When the system is emptied, a negative pressure difference is formed and the air pushes the float downward. With the kinetic inlet and exhaust port open, the air goes into the air valve to avoid the formation of a negative vacuum pressure in the system.



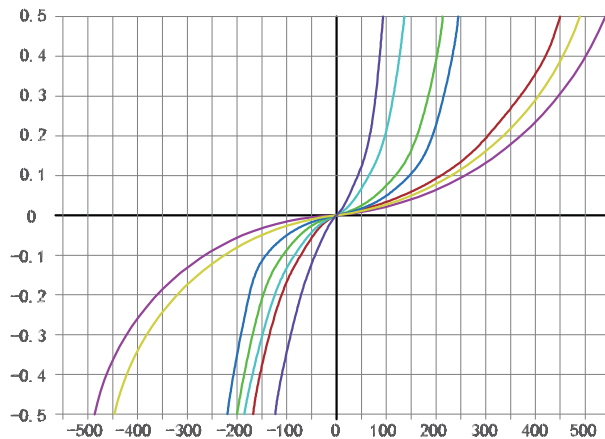
## SPECIFICATION

MODEL	CONNECTION SIZES	CONNECTIONS	ORIFICE SIZE (mm <sup>2</sup> )	WORKING PRESSURE (bar)	DIMENSION (mm)	WEIGHTS (g)
CAV-25	1"	BSPT/NPT	454	0.2-16	161x97x86	488
CAV-40	1"-1 1/2"	BSPT/NPT	374	0.2-16	165x75x70	290
CAV-50	2"	BSPT/NPT	908	0.2-16	249x184x111	1020
CAV-50-M	2"	BSPT/NPT	1074	0.2-16	270x110x110	900
CAV-50-L	2"	BSPT/NPT	1200	0.2-16	255x130x120	1100

## DIMENSION



## PERFORMANCE



- AAV-50 / KAV-50
- CAV-50-L
- CAV-25 / CAV-40
- KAV-10 / KAV-11 / KAV-12
- KAV-25
- CAV-50 / CAV-50-M
- KAV-30