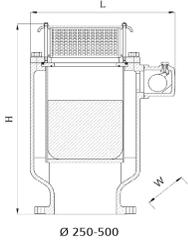
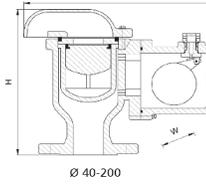


# AIR VALVE

## Double Chamber/Triple Function

**Description:** Our Double Chamber Triple Function Air Valves are meticulously engineered for exceptional performance, utilizing a unique 'Aerokinetic' design for quick air discharge or intake during system functioning. They proficiently manage accumulated air, ensuring the float only closes after all air has been expelled from the system and the chamber is filled with water. This inventive approach provides optimal system efficiency, safety, and prolongs operational lifespan.

APPROVED



## Material Specification

Parts	Main Materials	Optional Materials
Body Cover Upper Cover	Ductile Iron	Carbon Steel Stainless Steel Nickel Aluminum Bronze
Floats	Foamed Polypropylene (DN40-150) Polyethylene (DN200-500) (Full Material, Not Hollow Inside)	SS 304 SS 316 NAB
Float Guide	PVC	Nylon (Polyamide)SS 304, SS 316
Disc	Bronze	Brass, SS 304, SS 316, NAB
Orifice	SS 304	Bronze, SS 316
Seals	EPDM	NBR
Fasteners	8:8 (Galv.)	SS 304, SS 316

### Notes:

1. Different flange drillings are available, including ISO, EN, ANSI, and others.
2. The standard operating temperature range is -10°C to +80°C.
3. All RAL Colors are available.
4. Potable water certified coating is available.
5. Both thermoset and thermoplastic coatings are available.

### Application:

Double Chamber Air Valves are designed to perform three functions:

1. Venting of air on the start-up of the system, while pipelines are filled.
2. Intake of air on shut-off of the system, while pipelines are drained.
3. Discharge of pressurized air pockets during the operation of the system.

### Features:

- **Efficiency-Driven Aerodynamic Float Design:** The employment of an aerodynamic float design ensures the elimination of premature closure, enhancing overall efficiency.
- **Full Bore & Reduced Bore:** We cater to both full bore and reduced bore preferences, with availability contingent upon customer requests, thereby providing customization to align with unique industry requirements.
- **Enhanced Safety with Optional Isolation Valves:** Upon demand, we can equip our products with isolation valves, thereby enabling system separation for enhanced safety and maintenance convenience.
- **Scalable Operation with Available Manifolds:** In response to customer

requirements, we provide manifolds to facilitate parallel installations, enhancing system flexibility and operational scalability.

- **Empowering Inspection and Control with Testing Cocks:** To ensure optimal inspection and control, we offer testing cocks as per customer's demand, thereby reinforcing our commitment to delivering high-quality and reliable products.
- **Flexible Configuration: Threaded Versions for <DN65:** For sizes less than DN65, threaded versions of our products are available upon request, thereby broadening our scope to cater to diverse industrial needs and specifications.



# AIR VALVE

## Double Chamber/Triple Function



### Durable and Lightweight Float Design:

Our Air Valves are equipped with sturdy floats, engineered to endure significant forces as water enters, while maintaining sufficient lightness to float atop water. These fully solid floats, with no internal hollowness, ensure resistance against cracks or deformation, even after prolonged use. Their light structure guarantees excellent sealing performance.

### Advanced Sealing Performance:

Our Air Valves are equipped with sturdy floats, engineered to endure significant forces as water enters, while maintaining sufficient lightness to float atop water. These fully solid floats, with no internal hollowness, ensure resistance against cracks or deformation, even after prolonged use. Their light structure guarantees excellent sealing performance.

### Double Chamber Air Valves for Burst Prevention:

Our Dual Chamber Air Valves are designed to prevent pipeline bursts caused by air intake/discharge failure during system initiation, cessation, or ongoing operations. These valves incorporate two floats positioned at pre-set heights within different chambers. The primary float, guided by a ribbed cage, adjusts with water level changes. Its aerodynamic design maintains stability during air intake/discharge, averting premature closure. The valve only closes when water levels ascend and reopens as the water level descends, allowing for substantial air intake. The secondary float, attached by a pin, provides quick reaction, enabling air release during operational periods.

## DIMENSIONS (mm)

DN	40	50	60	65	80	100	125	150	200	250	300	350	400	500
Height	255	260	260	260	260	320	320	320	450	700	812	1065	1065	1455
Width (PN 10/16)	150	165	175	185	200	220	250	285	340	395/405	525	615	700	880
Width (PN 25/40)	150	165	175	185	200	235	270	300	360/375	425/450	525	615	700	880
Length	325	325	325	325	325	370	370	370	370	633	685	880	880	1060
Weight (PN 10/16)	17	17	19	20	21	31	32	34	64	181	197	422	840	1040
Weight (PN 25/40)	17	17	20	21	22	34	35	37	69	187	207	435	-	-

