

AIR VALVE

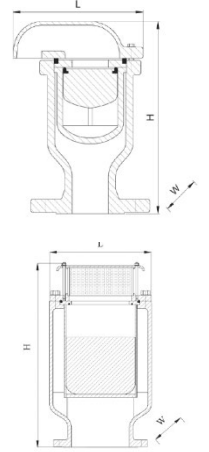
Single Chamber - Double Function

Description: Our Single Chamber Double Function Air Valve embodies excellence in engineering, integrating effective air intake and discharge within one chamber system. This valve delivers precise control, enhancing system efficacy and reducing early closure incidents. This sturdy and dependable solution guarantees peak performance across a broad spectrum of industrial applications.

Material Specification

Parts	Main Materials	Optional Materials
Body 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
Seals	EPDM	NBR
Fasteners	8:8 (Galv.)	SS 304, SS 316

APPROVED



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:

Single Chamber Air Valves are designed to perform two 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.

Features:

- **Optimized Float Design:** Aerodynamic float structure effectively prevents premature valve closure.
- **Bore Options:** Both full bore and reduced bore versions can be provided upon request.
- **Isolation Valves:** Addition of isolation valves is available on demand.
- **Manifold Availability:** Manifolds for parallel installation can be supplied upon request.
- **Testing Cocks:** Provision of testing cocks for inspection and control is available on demand.
- **Threaded Versions:** Threaded versions are offered upon request for dimensions less than DN65.



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Resilient and Lightweight Float Construction:

Our Air Valves encompass resilient floats that snugly seal against the float disc in the presence of water. Despite their substantial durability, these floats remain sufficiently lightweight to float on water. Constructed from a solid material without any hollow spaces, these floats guarantee resistance against cracking and shape changes over prolonged usage, while maintaining optimal sealing.

Exceptional Sealing Performance:

Our Air Valves incorporate an advanced float design promising improved sealing efficiency. Thoroughly tested under both high and low-pressure situations, these valves consistently uphold a drip-tight seal, even at pressures as low as 2mwc, validating their reliability in low-pressure networks.

Single Chamber Air Valve for Burst Prevention:

Single Chamber Air Valves are engineered to prevent pipeline ruptures, which may occur due to failure in air intake/discharge during system start-up and shutdown. Each valve consists of one float located at a pre-set height. Guided by a ribbed cage, this float moves in accordance with changes in water elevation. Its aerodynamic design assures stability during air intake/discharge, preventing early closure. It only seals the valve when the water level ascends and opens it as the water level descends, allowing for substantial air intake.

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	180	180	180	180	180	265	265	265	345	530	580	615	625	860t
Weight (PN 10/16)	11	11	11	12	12	24	26	30	54	175	192	417	835	1035
Weight (PN 25/40)	11	11	12	12	15	24	27	32	56	183	203	430	-	-

