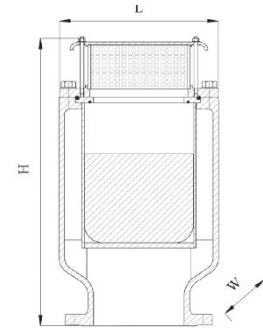
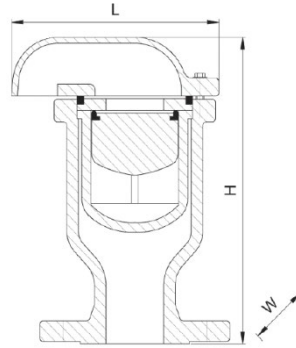


Description: Corvalve's Single Chamber Double Function Air Valve is a testament to superior engineering, harmonizing efficient air discharge and intake in a singular chamber system. Our valve ensures precision control, bolstering system efficiency while minimizing premature closure. This product offers a robust and reliable solution, ensuring optimal operational performance in various industrial applications.



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.

Note: This valve is not suitable for discharging pressurized air pockets while the system is operating. Please refer to other Corvalve Air Valve models for such a feature.

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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+90 216 306 40 44



Email
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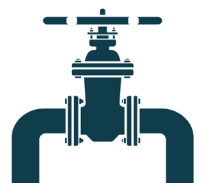
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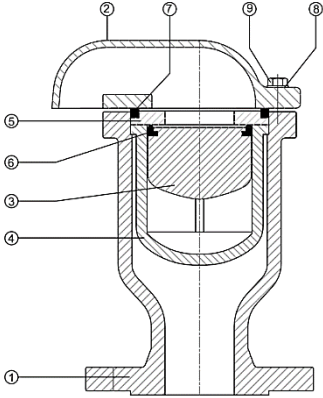
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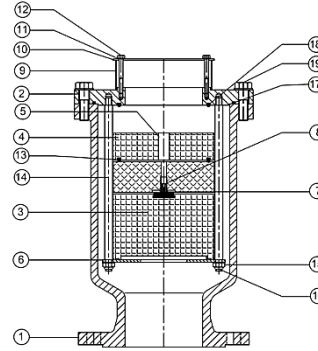
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Construction



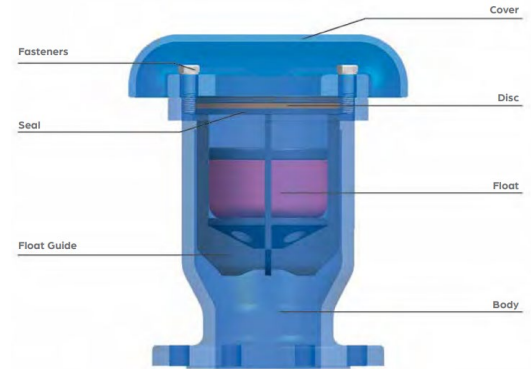
PART NO.	PART
1	Body
2	Cover
3	Large Orifice Float
4	Cage
5	Large Orifice
6	Large Orifice Float O-Ring
7	Cover O-Ring
8	Washer
9	Screw



PART NO.	PART
1	Body
2	Cover
3	Large Float
4	Middle Float
5	Top Float
6	Int. Orifice
7	Orifice Gasket
8	Small Orifice
9	Filter
10	Filter Cover
11	Washer
12	Screw
13	O-Ring
14	Stem
15	Nut
16	Washer
17	O-Ring
18	O-Ring
19	Bolt

Material Specification

Parts	Main Materials	Optional Materials
Body Cover	Ductile Iron	Carbon Steel Stainless Steel Nickle Aluminum Bronze
Float	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



Phone
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Mobile/Whatsapp
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Fax
+90 216 306 40 44



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Atatürk Cad.No:5/1
Else Apt.Daire:9,34880
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Benefits of Single Chamber Double Function Air Valves

- **Efficiency:** Aerodynamic float design provides efficient air discharge and intake, boosting overall system performance.
- **Flexibility:** Availability of both full bore and reduced bore options caters to diverse operational requirements.
- **System Control:** Optional isolation valves allow for enhanced system management and control.
- **Installation Convenience:** Availability of manifolds for parallel installation simplifies setup and increases installation options.
- **Inspection and Control:** On-demand testing cocks facilitate easy inspection and control, ensuring smooth operation and maintenance.
- **Customization:** Availability of threaded versions for sizes less than DN65 caters to specific installation needs, offering customization to clients.

Installation:

1. **Positioning the Valve:** Install the T-connected pipeline flange horizontally and the Air Valve vertically to the ground.
2. **Managing Load Forces:** Make sure load forces to the Valve from the pipeline don't exceed the EN 1074-2 standard.
3. **Securing the Connection:** Attach the Valve flange to the pipeline flange using bolts, nuts, and washers, ensuring equal fastening on opposing bolts.
4. **Using Steel Reinforced Gaskets:** Place these gaskets correctly between flanges and adhere to EN 1591 Standard for flange bolting.
5. **Location of Air Valves:** Install them close to the main pipeline and keep the T-connection length minimal.
6. **Protecting the Valve:** Shield the Valve from external factors such as construction work or coating.
7. **Cleaning the Pipeline:** Flush and clean the pipeline from all foreign particles before Valve installation.

Operating Principles:

1. **Keeping the Medium Clean:** Ensure cleanliness as small air discharge orifices can clog.
2. **Maintaining Cathodic Protection:** For steel pipeline applications, cathodic protection is vital to prevent Galvanic Corrosion.
3. **Inspecting the Valve:** Check for foreign particles and the condition of the sealing surfaces before installation.
4. **Re-coating On-site:** If needed, protect the sealing surfaces (gaskets, o-rings, stainless steel surfaces, etc.) during the process.



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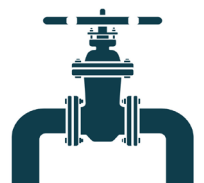
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Resilient and Lightweight Float Construction:

Our Air Valves feature durable floats that close to the float disc when water is present. Despite their robustness, these floats are light enough to float on water. Made from solid material without any hollow interior, they resist cracking and deformation over years of operation while providing superior sealing.

Exceptional Sealing Performance:

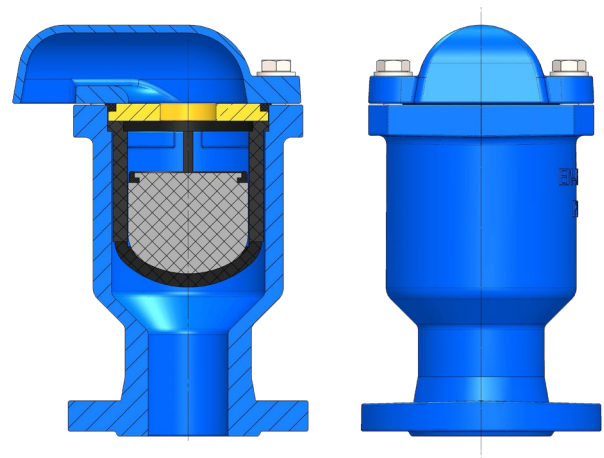
Corvalve's Air Valves incorporate an advanced float design that offers enhanced sealing capabilities. The reliability of their sealing performance has been rigorously tested under both high and low-pressure conditions. They maintain a drip-tight seal even under 2mwc pressure, ensuring their reliability in low-pressure networks.

Single Chamber Air Valve for Burst Prevention:

Single Chamber Air Valves from Corvalve are designed to safeguard against pipeline bursts caused by air intake/discharge failure during system start-up and shutdown. Each valve contains a single float, housed at a predetermined height. This float, guided by a ribbed cage, adjusts with the water's elevation changes. Its aerodynamic design ensures stability during air intake/discharge, preventing premature closure. It only closes the valve when the water level rises and reopens it when the water level drops, facilitating the intake of large air volumes.

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.



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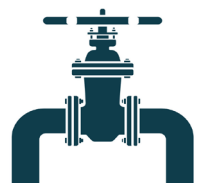
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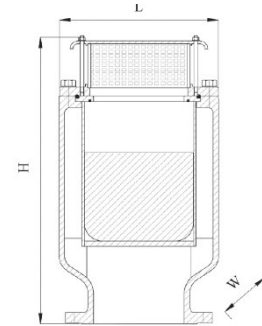
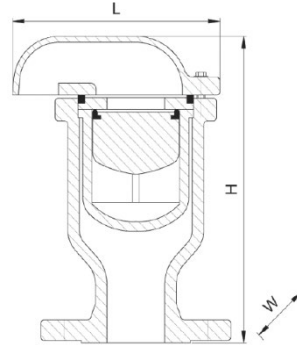


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DIMENSIONS (mm)

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	-	-



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