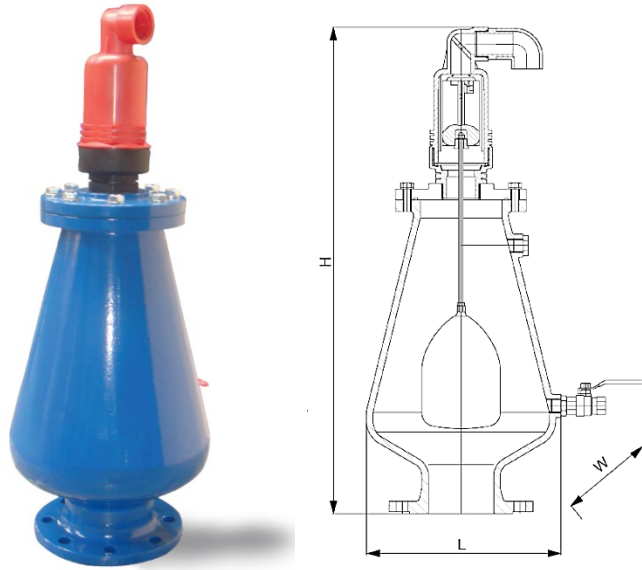


**Description:** The Corvalve Triple Function Sewage Air Valve, containing both a kinetic and an automatic air evacuation valve in a singular structure, performs a critical role in sewage systems. It proficiently expels and admits air from wastewater, and its exclusive design ensures total separation between the liquid and the closure mechanism, thus providing optimal operational conditions.



### Application:

Sewage 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:

- **Standard Flushing Valve:** The air valve comes with a standard flushing ball valve.
- **Anti-Clog Design:** The air valve features a funnel shape body design, effectively preventing clogging.
- **Material Options:** The sealing body of the air valve is available in either POM or Ductile Iron options.
- **Non-Slam Feature:** Upon request, a non-slam option can be incorporated into the air valve.
- **Manifold Availability:** For parallel installation, manifolds are available upon request.



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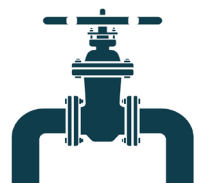
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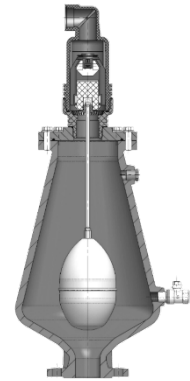
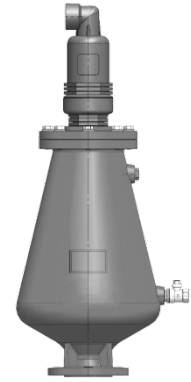
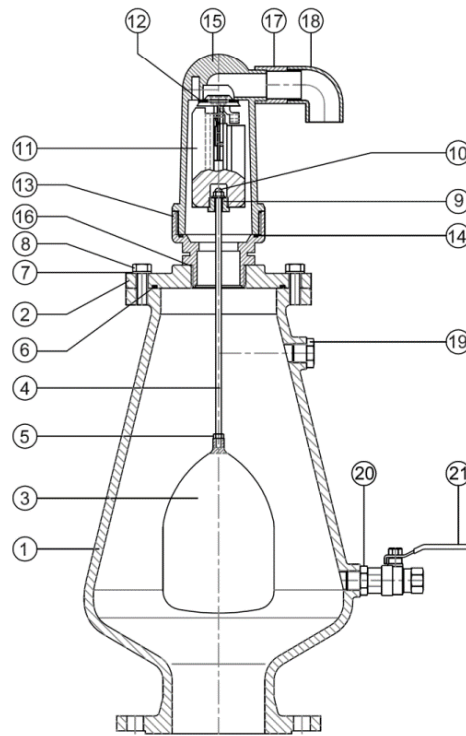


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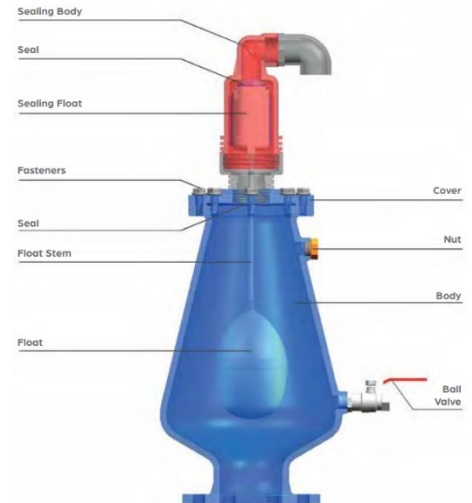
### Construction

PART NO.	PART
1	Body
2	Cover
3	Float
4	Stem
5	Nut
6	O-Ring
7	Washer
8	Screw
9	Nut
10	Counter Nut
11	Sleaving Float
12	Sealing Gasket
13	Adaptor
14	O-Ring
15	Adaptor Cover
16	O-Ring
17	DN 40 – PVC - Pipe
18	DN 32 – PVC – Elbow
19	R ½” Plug
20	R ½” Nipple
21	R ½” Ball Valve



### Material Specification

Parts	Main Materials	Optional Materials
Body Cover	Ductile Iron	SS 304, SS 316
Float	SS 316	Polyethylene
Float Stem	X20Cr13	SS 304, SS316
Sealing Body Sealing Float	POM	Ductile Iron PE
Nut	Bronze	SS 304, SS316
Seals	NBR	SS 304, SS 316
Fasteners	SS 304	SS 316



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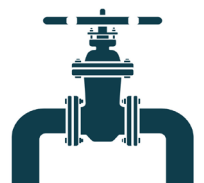
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## Benefits of Triple Function - Sewage Air Valves

- **Effective Operation:** These valves manage air venting, air intake, and pressurized air pocket release efficiently, enhancing overall system performance.
- **Clog Prevention:** Thanks to the unique funnel-shaped design, these valves resist clogging, making them ideal for sewage applications.
- **Material Flexibility:** With POM or Ductile Iron sealing body options, these valves offer durability and resistance to corrosion.
- **Non-Slam Feature:** An optional non-slam feature prevents water hammer, protecting the pipeline system from potential damage.
- **Installation Versatility:** The availability of manifolds provides options for parallel installation, allowing adaptable system design.

## 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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### Sewage-Specific Design

Standard air valves fall short in sewage applications due to their susceptibility to clogging. Corvalve's Sewage Air Valves have been specifically designed to overcome this issue. They feature a two-float mechanism that separates the sealing area from the sewage, thus preventing clogging in the sealing orifices. Furthermore, the funnel-shaped design ensures any residual waste is carried back into the pipeline. The inclusion of a flushing ball valve allows for the convenient cleaning of the valve body when required.

### Material Choices and Optional Features

Our Sewage Air Valves come with a Polyoxymethylene (POM) sealing valve body and float for triple function capability. For high-pressure applications (PN16<), we utilize a ductile iron material sealing valve body. Additionally, upon request, we can include a non-slam feature to any pressure rating, which can mitigate the slamming effect of the float in scenarios of high pipeline filling velocity.

### Triple Functionality and Corrosion Resistance

Corvalve's Sewage Air Valves embody triple functionality within a single valve body, facilitating the exhausting of air/gas and intake of air into wastewater lines. The innovative design ensures complete segregation between the sewage and sealing mechanism, courtesy of a formed air chamber gap. This guarantees optimal distance between the sealing mechanism and the sewage. The bottom-funnel design allows residual sewage to settle at the valve's base, enabling it to return to the main line, thus preventing clogging. The operator can easily flush the air valve using the ball valve positioned at the base of the valve. All internal metal parts are composed of stainless steel, minimizing the corrosive impact of the sewage.

#### 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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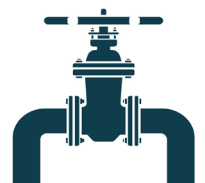
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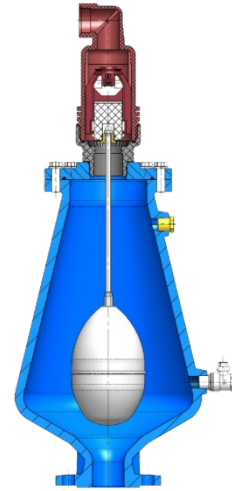
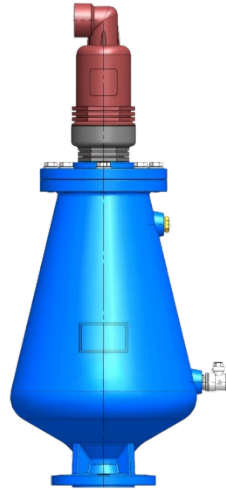
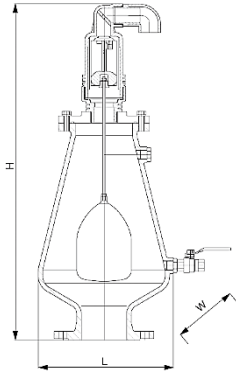


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### DIMENSIONS (mm)

DN	"	80	100	150	200
Height	733	733	733	733	733
Width	165	200	220	285	340
Length	366	366	366	366	366
Weight (PN 10/16)	36	37	38	40	43



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