

# AIR VALVE

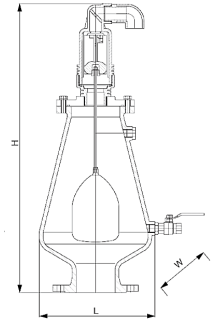
## Triple Function – Sewage



**Description:** The Triple Function Sewage Air Valve, incorporating both a kinetic and an automatic air release valve within a single construct, plays an indispensable role in sewage systems. It adeptly releases and admits air from wastewater, and its distinctive design ensures complete isolation between the liquid and the closing mechanism, thereby facilitating optimal operating conditions.

## Material Specification

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

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.



### Sewage-Specific Design

Conventional air valves often fail to meet the specific needs of sewage applications due to their tendency to get clogged. Our Sewage Air Valves address this issue with a custom design that includes a dual float mechanism to isolate the sealing area from the sewage, thereby preventing blockages in the sealing orifices. The valve's funnel-shaped design ensures that any leftover waste is rerouted back into the pipeline, and an integrated flushing ball valve simplifies the process of cleaning the valve body as needed.

### Material Choices and Optional Features

Our Sewage Air Valves come equipped with a Polyoxymethylene (POM) sealing valve body and float for triple functionality. For higher pressure applications (exceeding PN16), we utilize a ductile iron sealing valve body. We can also incorporate a non-slam feature upon request to mitigate the slamming effect of the float in instances of high pipeline filling velocity.

### Triple Functionality and Corrosion Resistance

Sewage Air Valves demonstrate triple functionality within a single valve body, facilitating the expulsion of air/gas and intake of air into wastewater pipelines. Their ingenious design ensures complete separation between the sewage and the sealing mechanism through a purposefully constructed air chamber gap. This design offers an optimal distance between the sealing mechanism and the sewage. The valve's lower funnel design allows residual sewage to settle at the valve's base, facilitating its return to the main pipeline and preventing blockages. Operators can easily flush the air valve using the ball valve located at the valve's base. All internal metal components are made of stainless steel to minimize the corrosive effect of the sewage.

### 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