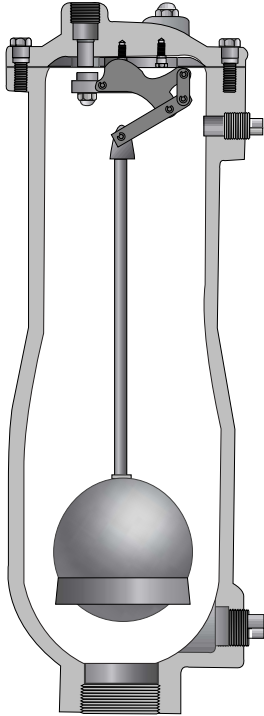




# WASTEWATER SERVICE



- **Stainless Steel Trim Standard**
- **Stainless Steel Floats Guaranteed**
- **Easily Serviced Without Removal From Pipeline**
- **Engineered For Drip Tight Seal At Low Pressures**
- **Optional Backwash Kit Available**

The Cla-Val series 34WW Air Release Valve is specially designed for sewage service. It will protect pipelines from entrained air or gases that collect at high points in sewage pipelines. This valve effectively eliminates air from a system by releasing small amounts of air before large air pockets can occur. In extreme cases, the continued accumulation of air without release valves can actually stop flow completely. Increased power consumption and associated power costs can be anticipated if systems are not properly designed to release accumulated air.

During normal operation, air and gas accumulation will displace the liquid within the valve and lower the liquid level in relation to the float. When the level of the liquid lowers to where the float is no longer buoyant, the float will lower and using a mechanical lever will open the valve seat to permit the accumulated air to be exhausted to atmosphere. As air is released, liquid level in the valve raises the float and closes the valve seat. This cycle is automatically repeated as often as necessary.

## Installation

Series 34WW Air Release Valves are typically installed at high-points in pipelines and at regular intervals of approximately 1/2 mile, along horizontal pipelines.

Mount the unit in the vertical position on top of the pipeline with an isolation valve installed below each valve in the event servicing is required. A vault with adequate venting and drainage should also be provided.

For regular cleaning to keep sewage equipment in good working condition use the optional customer installed BWKT Backwash Kit with back flushing hose and quick disconnect couplings.

## General Specifications

### Sizes

2", 3", 4" NPT

### Pressure Ratings

150 psi

300 psi

Note: Specify when operating pressure below 10 psi

### Materials

Body and Cover:

Cast Iron ASTM  
A 126, Class B

Float:

Stainless Steel

Internal Parts:

Stainless Steel

Seal:

Buna N® Rubber

## Purchase Specifications

The air release valve shall be of the float operated, compound lever design, and capable of automatically releasing accumulated air, gas or vapor from a pressurized fluid system while it is in operation.

An adjustable featured orifice shall be used to seal the valve discharge port with drip-tight shut-off. The orifice diameter must be sized for use within a given operating pressure range to insure maximum discharge capacity.

The float shall be of all stainless steel construction and capable of withstanding maximum system surge pressure without failure. The body and the cover shall be of cast iron and the valve internal parts shall be of stainless steel with a Buna-N® rubber seat.

The air release valve shall be Series 34WW from Cla-Val, Newport Beach, CA, U.S.A.

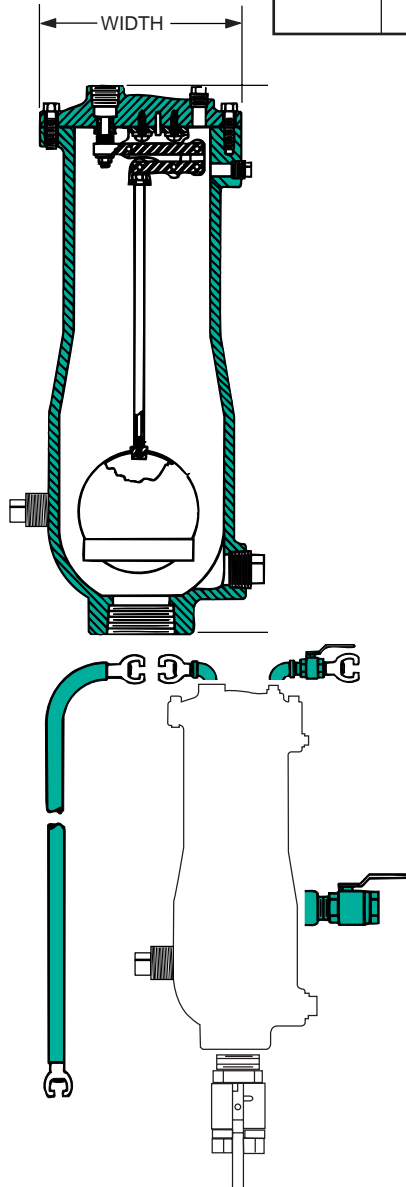


# Series 34-WW

## AIR RELEASE VALVES

### When Ordering, Please Specify:

1. Model Number
2. Inlet Size (NPT)
3. Inlet Pressure Rating
4. Orifice Size
5. Optional Backwash
6. Specify When  
Operating Pressure  
Less than 10 PSI  
Kit (See page 60)



Series 34WW with Optional Customer  
Installed BWKT Backwash Kit

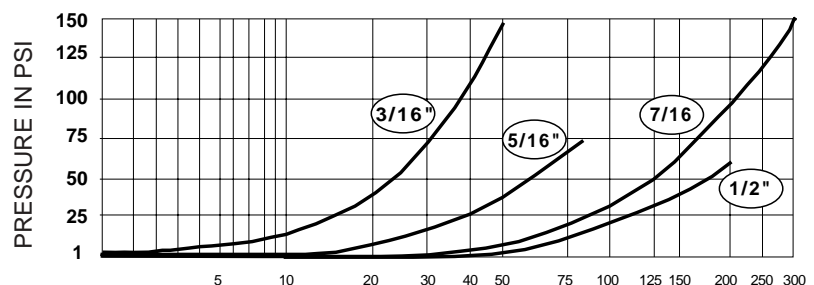
E-34WW (R-5/00)

Series No.	Inlet Size	Outlet Size	ORIFICE SIZE		HT. with BWKT	HT. w/o BWKT	Width with BWKT	Width w/o BWKT	Depth	WT Lbs. with BWKT	WT Lbs. w/o BWKT
			0 to 150 P.S.I.	0 to 300 P.S.I.							
34-WW	2"	1/2"	Standard 3/16"	3/32"	23 13/16"	20 1/2"	10 1/2"	7"	7"	55	42
	3"				26 13/16"					85	47
	4"				33"					102	45
34-WW	2"	1"	Standard 7/16"	7/32"	29"	20 1/2"	14"	9 1/2"	9 1/2"	95	82
	3"				32 1/2"					119	81
	4"				34"					138	80

For valves with working pressures above 150 psi, consult factory.

Sizing Guide			
System Pressure	SYSTEM CAPACITY IN GPM		
	0 to 2500	2500 to 4000	4000 and Up
5 to 150 PSI	Model No. 34-WW with 3/16" Orifice	Model No. 34-WW with 3/16" Orifice (1/2" outlet) or with 7/16" Orifice (1" outlet)	Model No. 34-WW with 7/16" Orifice

- NOTE:**
1. The Series 34WWS (short body) should only be substituted for the standard 34WW when vertical clearance for the 34WW is not available.
  2. It is recommended to use as large an inlet size as possible. This provides a better air and water exchange and lessens the chance of clogged inlets.
  3. Optional BWKT Backwash Kit (customer installed) is recommended for maintenance of waste water air valves.
  4. Valves should be installed at all high points in a system or force main.



DISCHARGE OF AIR THROUGH AN ORIFICE IN S.C.F.M.  
(STANDARD CUBIC FEET OF FREE AIR PER MINUTE)