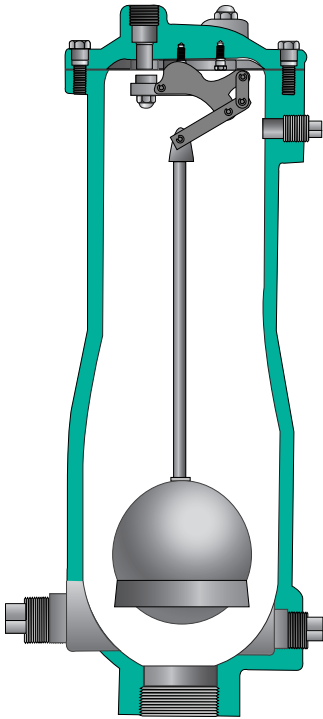




Series 34-WW WASTEWATER SERVICE AIR RELEASE VALVES



Note:
For sizing see page 4

- **Stainless Steel T316 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.

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.

Specifications

Sizes
2", 3", 4" NPT

Pressure Ratings
150 psi w/ 3/16" Orifice
300 psi w/ 3/32" Orifice

Note: Specify when operating pressure below 10 psi

Materials
Body and Cover:
Cast Iron ASTM
A 126, Class B

Float:
Stainless Steel T316

Internal Parts:
Stainless Steel T316

Seal:
Buna N® Rubber

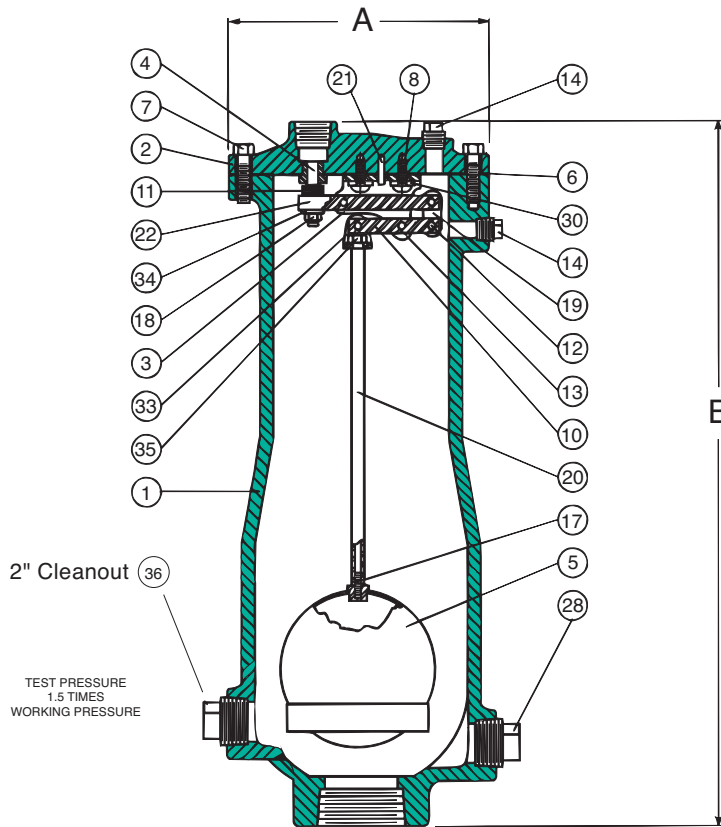
The float shall be of all stainless steel construction and capable of withstanding maximum system surge pressure without failure. The body and the cover shall be of cast iron and the valve internal parts shall be of stainless steel with a Buna-N® rubber seat. All T316 Stainless Steel shall be ASTM A276 - T316 Austenitic..

The air release valve shall be manufactured per ANSI/AWWA C512-04 Series 34WW from Cla-Val, Newport Beach, CA, U.S.A.





Series 34-WW Wastewater Air Release Valve



Detail No.	Part Name	Material	Detail No.	Part Name	Material
1	Body	Cast Iron ASTM A126, Class B	14	Cover Pipe Plug	Malleable Iron
2	Cover	Cast Iron ASTM A126, Class B	17	Float Retainer	Stainless Steel T316, ASTM A276
3	Leverage Frame	Stainless Steel T316, ASTM A276	18	Lock Nut	Stainless Steel T316, ASTM A276
4	Seat	Stainless Steel T316, ASTM A276	19	Link	Stainless Steel T316, ASTM A276
5	Float	Stainless Steel T316, ASTM A276	20	Guide Shaft	Stainless Steel T316, ASTM A276
6	Gasket	Lexide NK-511 (non-Asbestos)	21	Location Pin	Stainless Steel T316, ASTM A276
7	Cover Bolt	Alloy Steel ASTM A449, Grade 5	22	Orifice Button	Stainless Steel T316, ASTM A276
8	Retaining Screws	Stainless Steel T316, ASTM A276	28	Body Pipe Plug	Malleable Steel
10	Float Arm	Stainless Steel T316, ASTM A276	30	Washer	Stainless Steel T316, ASTM A276
11	Orifice Button	Stainless Steel T316 & Buna-N®	33	Clevis	Stainless Steel T316, ASTM A276
12	Pivot Pin	Stainless Steel T316, ASTM A276	34	Lock Washer	Stainless Steel T316, ASTM A276
13	Retaining Ring	Stainless Steel PH 15-7 Mo	35	Retainer	Stainless Steel T316, ASTM A276
			36	Body Pipe Plug	Stainless Steel T316, ASTM A276

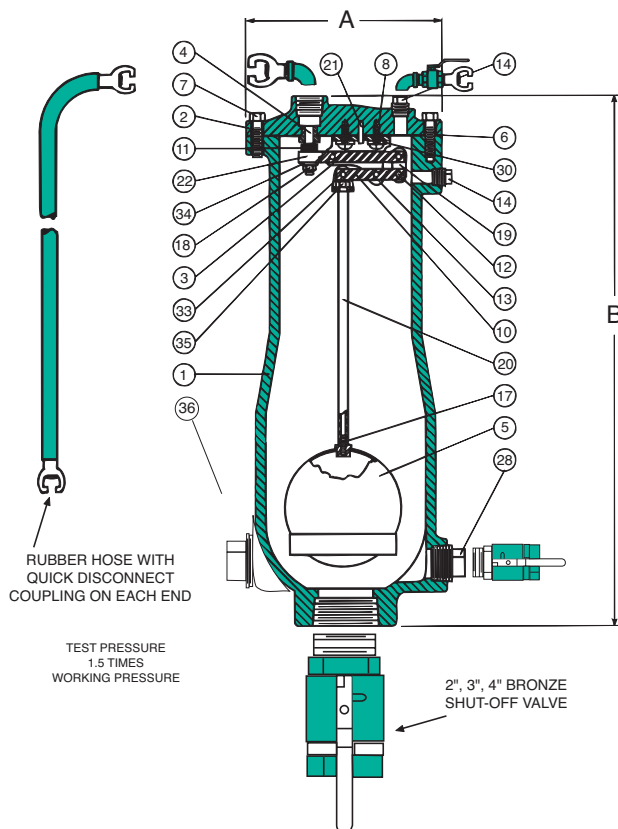
Model No.			Model No.		Model No.						
Valve Size	75 psi Max. W.P.	75 psi Orifice	150 psi Max. W.P.	150 psi Orifice	300 psi Max. W.P.	300 psi Orifice	Inlet Size	Outlet Size	A	B	WT. Lbs.
2"	34-WW25-516	5/16"	34-WW25-316	3/16"	34-WW25-332.3	3/32"	2"	1/2" N.P.T.	7"	15"	42
3"	34-WW35-516	5/16"	34-WW35-316	3/16"	34-WW35-332.3	3/32"	3"	1/2" N.P.T.	7"	15"	45
4"	34-WW45-516	5/16"	34-WW45-316	3/16"	34-WW45-332.3	3/32"	4"	1/2" N.P.T.	7"	15"	47
2"	34-WW21-050	1/2"	34-WW21-716	7/16"	34-WW21-025	1/4"	2"	1" N.P.T.	9 1/2"	17"	82
3"	34-WW31-050	1/2"	34-WW31-716	7/16"	34-WW31-025	1/4"	3"	1" N.P.T.	9 1/2"	17"	83
4"	34-WW41-050	1/2"	34-WW41-716	7/16"	34-WW41-025	1/4"	4"	1" N.P.T.	9 1/2"	17"	84

Note: Manufactured to meet ANSI/AWWA C512-04



Series 34-WWBW

Wastewater Air Release Valve with Backwash Kit



Detail No.	Part Name	Material	Detail No.	Part Name	Material
1	Body	Cast Iron ASTM A126, Class B	14	Cover Pipe Plug	Malleable Iron
2	Cover	Cast Iron ASTM A126, Class B	17	Float Retainer	Stainless Steel T316, ASTM A276
3	Leverage Frame	Stainless Steel T316, ASTM A276	18	Lock Nut	Stainless Steel T316, ASTM A276
4	Seat	Stainless Steel T316, ASTM A276	19	Link	Stainless Steel T316, ASTM A276
5	Float	Stainless Steel T316, ASTM A276	20	Guide Shaft	Stainless Steel T316, ASTM A276
6	Gasket	Lexide NK-511 (non-Asbestos)	21	Location Pin	Stainless Steel T316, ASTM A276
7	Cover Bolt	Alloy Steel ASTM A449, Grade 5	22	Orifice Button	Stainless Steel T316, ASTM A276
8	Retaining Screws	Stainless Steel T316, ASTM A276	28	Body Pipe Plug	Malleable Steel
10	Float Arm	Stainless Steel T316, ASTM A276	30	Washer	Stainless Steel T316, ASTM A276
11	Orifice Button	Stainless Steel T316 & Buna-N®	33	Clevis	Stainless Steel T316, ASTM A276
12	Pivot Pin	Stainless Steel T316, ASTM A276	34	Lock Washer	Stainless Steel T316, ASTM A276
13	Retaining Ring	Stainless Steel PH 15-7 Mo	35	Retainer	Stainless Steel T316, ASTM A276
			36	Body Pipe Plug	Stainless Steel T316, ASTM A276

Model No.			Model No.		Model No.							
Valve Size	75 psi Max. W.P.	75 psi Orifice	150 psi Max. W.P.	150 psi Orifice	300 psi Max. W.P.	300 psi Orifice	Inlet Size	Outlet Size	A	B	Width	Wt. Lbs.
2"	34-WW25-516BW	5/16"	34-WW25-316BW	3/16"	34-WW25-332.3BW	3/32"	2"	1/2" N.P.T.	7"	25"	11"	55
3"	34-WW35-516BW	5/16"	34-WW35-316BW	3/16"	34-WW35-332.3BW	3/32"	3"	1/2" N.P.T.	7"	28"	11"	85
4"	34-WW45-516BW	5/16"	34-WW45-316BW	3/16"	34-WW45-332.3BW	3/32"	4"	1/2" N.P.T.	7"	33"	11"	102
2"	34-WW21-050BW	1/2"	34-WW21-716BW	7/16"	34-WW21-025BW	1/4"	2"	1" N.P.T.	9 1/2"	27"	11"	95
3"	34-WW31-050BW	1/2"	34-WW31-716BW	7/16"	34-WW31-025BW	1/4"	3"	1" N.P.T.	9 1/2"	30"	11"	119
4"	34-WW41-050BW	1/2"	34-WW41-716BW	7/16"	34-WW41-025BW	1/4"	4"	1" N.P.T.	9 1/2"	32"	11"	138

Note: Manufactured to meet ANSI/AWWA C512-04

