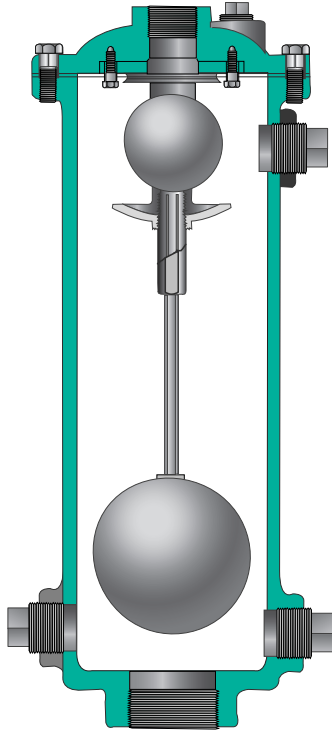




Series 35-WW WASTEWATER SERVICE AIR AND VACUUM VALVES



- **Stainless Steel T316 Trim Standard**
- **Stainless Steel Floats Guaranteed**
- **Fully Ported Valves - No Restrictions**
- **Designed For Drip Tight Seal At Low Pressures**
- **Optional Backwash Kit Available**

The Cla-Val Series 35WW Air and Vacuum Valve is designed to perform two separate functions in a sewage or wastewater system. First, it will allow large quantities of air to be exhausted from the pipeline as it is being filled. When this air has been vented completely, liquid will enter the valve causing the float to seal tightly against the seat. Secondly, if the line is being drained, the valve responds to the loss in pressure and opens. This allows air to re-enter the pipeline and prevents potentially damaging vacuum from developing.

The Series 35WW does not open under pressure to exhaust small quantities of air which may collect at high points during system normal operation. Model 34WW Air Release Valve is required for this function. For both functions, select Model 36WW Combination Air Release and Vacuum Valve.

Note: For Valve Sizing, See Formula Page 14.

Installation

Series 35WW Air and Vacuum Valves should be installed at high points or at grade changes within the pipeline. Mount the unit in the vertical position on top of the pipeline with isolation valve 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 and vacuum valve shall be able to automatically exhaust large quantities of air during filling of a pipeline and allows air to re-enter pipeline during the draining or when a negative pressure occurs.

The inlet and outlet of the valve shall have the same cross-section area. The float shall be guided by a synthetic rubber seal.

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

The Air and Vacuum Valve shall be manufactured per ANSI/AWWA C512-04 Series 35WW from Cla-Val Newport Beach, CA, U.S.A.

Specifications

Sizes

2", 3", 4" NPT
4", 6" 8" flanged ANSI
Class 125 lb.
Class 250 lb.

Pressure Rating

150 psi & 300 psi ratings

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

When Ordering, Please Specify:

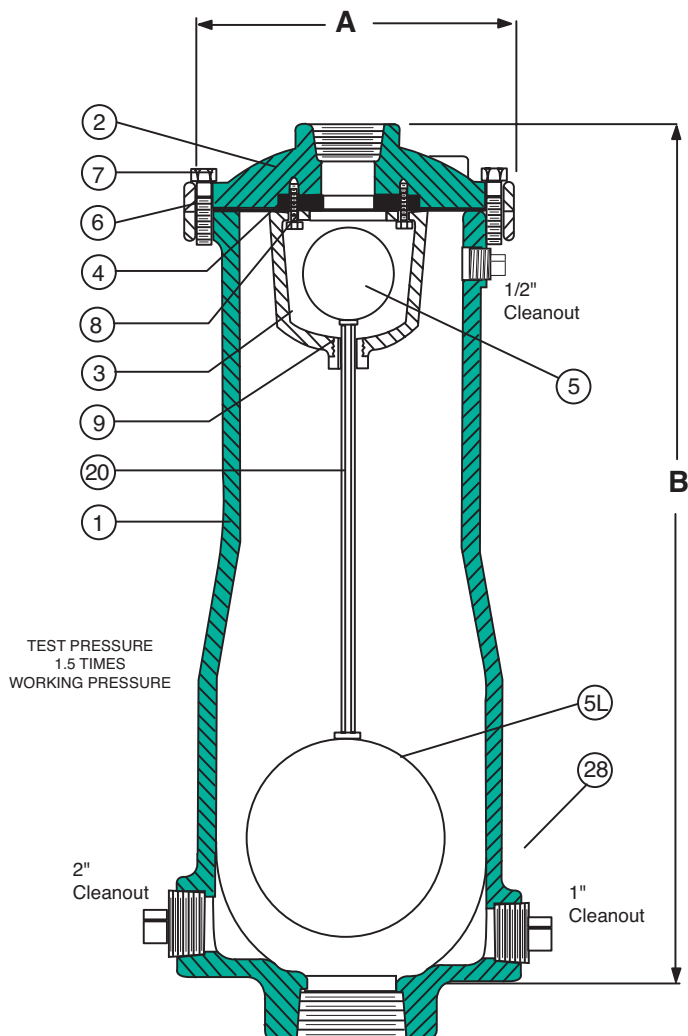
1. Model Number
2. Inlet Size
3. Optional Backwash Kit (See page 68)





Series 35-WW

Wastewater Air and Vacuum Valve



TEST PRESSURE
1.5 TIMES
WORKING PRESSURE

Detail No.	Part Name	Material	Detail No.	Part Name	Material
1	Body	Cast Iron ASTM A126, Class B	7	Cover Bolt	Alloy Steel ASTM A449 Grade 5
2	Cover	Cast Iron ASTM A126, Class B	8	Retaining Screw	Stainless Steel T316, ASTM A-276
3	Baffle	Ductile Iron ASTM A536	9	Guide Bushing	Stainless Steel T316, ASTM A-276
4	Seat	Buna -N®	14	Cover Pipe Plug	Malleable Iron
5	Float	Stainless Steel T316, ASTM A-276	20	Guide Shaft	Stainless Steel T316, ASTM A-276
5-L	Float	Stainless Steel T316, ASTM A-276	28	Body Pipe Plug	Malleable Iron
6	Gasket	Lexide Nk-511 (Non-Asbestos)			

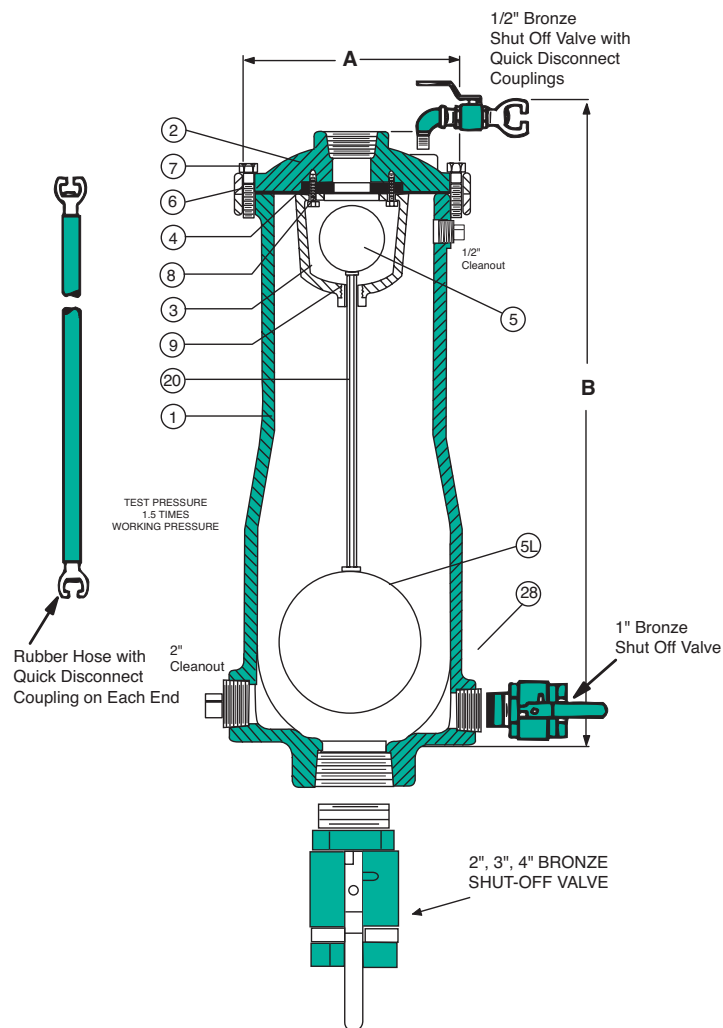
Model No.	Valve Size	A	B	Inlet Size	Outlet Size	WT.
300 MWP						
35-WW21	1"	7"	15"	2" NPT	1" NPT	44
35-WW22	2"	9 1/2"	17 1/2"	2" NPT	2" NPT	83
35-WW33	2"	9 1/2"	17 1/2"	3" NPT	3" NPT	90

Note: Manufactured to meet ANSI/AWWA C512-04



Series 35-WWBW

Wastewater Air and Vacuum Valve with Backwash Kit



Model (300 MWP)	35-WW21BW	35-WW22BW	35-WW33BW	Wt. Lbs.
Size	2" x 1"	2" X 2"	3" x 3"	56
B	23"	26	29	95
A	10 1/2"	14"	14"	119
Depth	7"	9 1/2"	9 1/2"	9 1/2

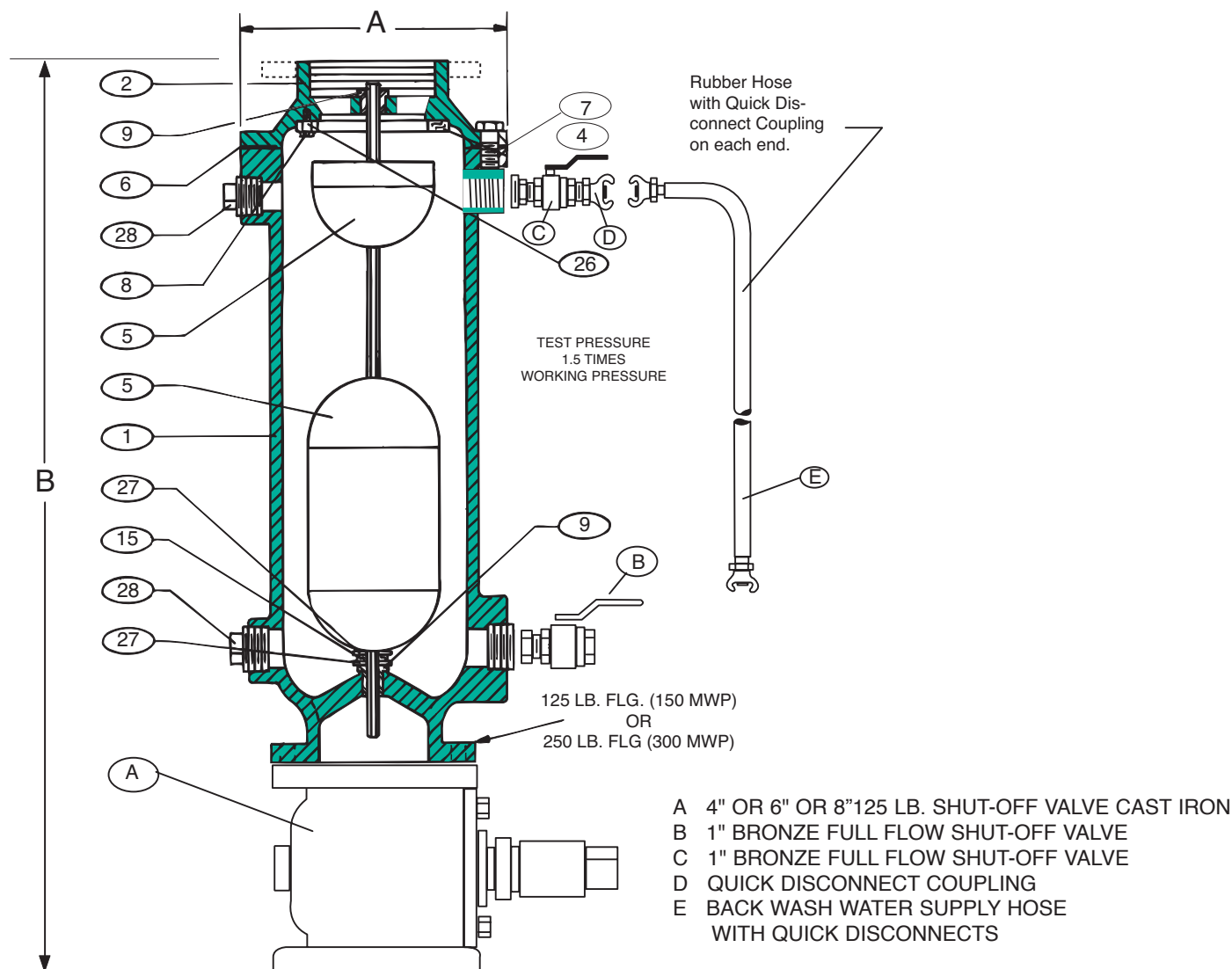
Detail No.	Part Name	Material	Detail No.	Part Name	Material
1	Body	Cast Iron ASTM A126, Class B	7	Cover Bolt	Alloy Steel ASTM A449 Grade 5
2	Cover	Cast Iron ASTM A126, Class B	8	Retaining Screw	Stainless Steel T316, ASTM A-276
3	Baffle	Ductile Iron ASTM A536	9	Guide Bushing	Stainless Steel T316, ASTM A-276
4	Seat	Buna -N®	14	Cover Pipe Plug	Malleable Iron
5	Float	Stainless Steel T316, ASTM A-276	20	Guide Shaft	Stainless Steel T316, ASTM A-276
5-L	Float	Stainless Steel T316, ASTM A-276	28	Body Pipe Plug	Malleable Iron
6	Gasket	Lexide Nk-511 (Non-Asbestos)			

Note: Manufactured to meet ANSI/AWWA C512-04



Series 35-WWBW

Wastewater Air and Vacuum Valve with Backwash Kit



Detail No.	Part Name	Material	Detail No.	Part Name	Material
1	Body	Cast Iron ASTM A126, Class B	8	Retaining Screws	Stainless Steel T316, ASTM A276
2	Cover	Cast Iron ASTM A126, Class B	9	Guide Busing	Stainless Steel T316, ASTM A276
4	Seat	Buna-N®	15	Cushion	Buna-N®
5	Float	Stainless Steel T316, ASTM A276	26	Seat Retaining Sleeve	Stainless Steel T316, ASTM A276
6	Gasket	Lexide NK-511 (non-Asbestos)	27	Washer-Internal	Stainless Steel T316, ASTM A276
7	Cover Bolt	Alloy Steel	28	Pipe Plug	Malleable Iron

Valve Size	Model	Inlet Size	A	B	Outlet Size	Wt
4"	35-WW44BW	4" Flange	46"	17"	4" NPT OR FLANGED	233
6"	35-WW66BW	6" Flange	47"	20"	6" NPT OR FLANGED	351
8"	35-WW88BW	8" Flange	53"	23"	8" FLANGED STANDARD	575

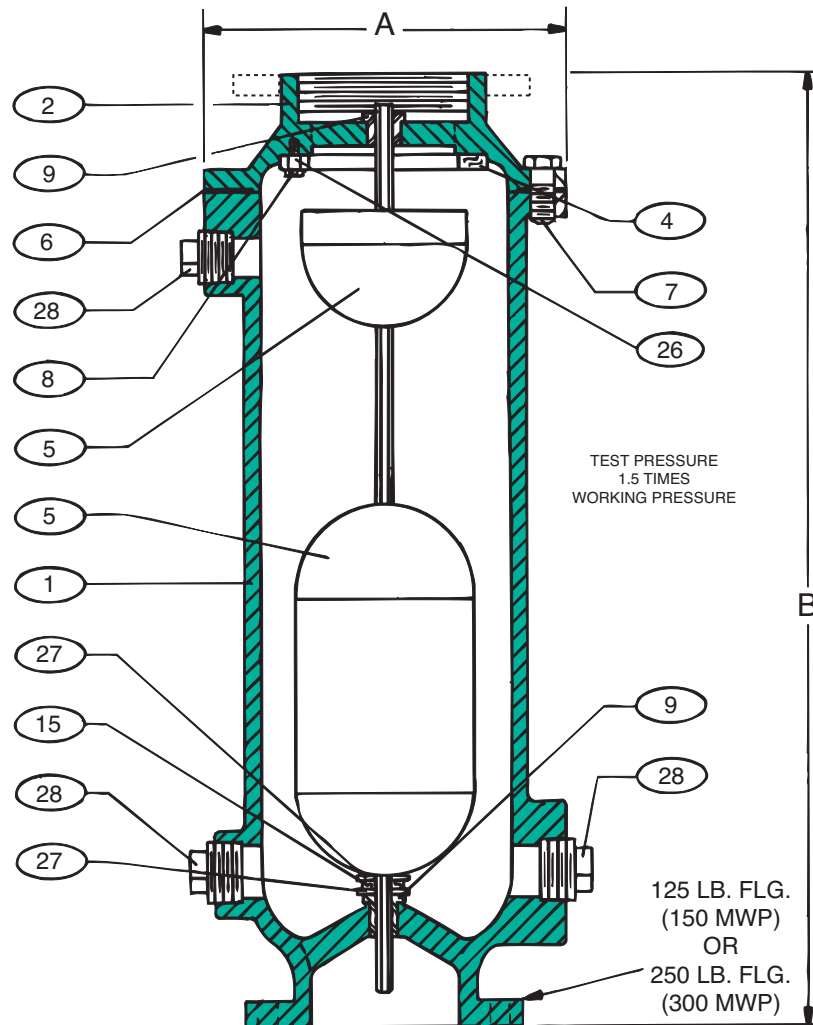
Larger Sizes Available

Note: Manufactured to meet ANSI/AWWA C512-04



Series 35-WW

Wastewater Air and Vacuum Valve



Detail No.	Part Name	Material	Detail No.	Part Name	Material
1	Body	Cast Iron ASTM A126, Class B	8	Retaining Screws	Stainless Steel T316, ASTM A276
2	Cover	Cast Iron ASTM A126, Class B	9	Guide Busing	Stainless Steel T316, ASTM A276
4	Seat	Buna-N®	15	Cushion	Buna-N®
5	Float	Stainless Steel T316, ASTM A276	26	Seat Retaining Sleeve	Stainless Steel T316, ASTM A276
6	Gasket	Lexide NK-511 (non-Asbestos)	27	Washer-Internal	Stainless Steel T316, ASTM A276
7	Cover Bolt	Alloy Steel	28	Pipe Plug	Malleable Iron

Valve Size	MODEL No.	A	B	Inlet Size	Outlet Size	Wt. Lbs.
4"	35-WW44	11 1/2"	36 1/2"	4" FLG.	4" NPT OR FLANGED	165
6"	35-WW66	14"	36 1/2"	6" FLG.	6" NPT OR FLANGED	235
8"	35-WW88	18"	41 1/4"	8" FLG.	8" FLANGED ONLY	320

Note: Manufactured to meet ANSI/AWWA C512-04