

# Figures 935, 935F

## Sewage/Wastewater Air Vacuum Valve

### Description

GA Industries Figure 935 Air & Vacuum Valves efficiently vent air and sewage gas from sewage forcemains as they are being filled and then close tight once the system is full and pressurized. They automatically open to admit air to limit vacuum formation when the forcemain is drained and/or a negative pressure occurs in the valve.

Figure 935 Air & Vacuum Valves are typically installed at system high points where air and sewage gas naturally rise during filling and vacuum first forms during draining. The elongated body is designed to maintain an air gap between the solids bearing fluid and the valve's internal mechanism to minimize fouling and spillage.

Figure 935F includes optional "back flushing attachments" to facilitate cleaning sludge and debris from the valve



### Product Features

- Full size orifice for maximum air outflow and inflow rates
- Corrosion resistant Type 316 stainless steel float, plug, seat ring and internal mechanism
- Elongated body reduces potential for fouling
- Tight sealing and easily replaceable rubber seat
- 2" NPT plugged port allows removal of large debris

### Standard Materials

- Body & Cover Cast Iron, ASTM A126 Class B
- Float Stainless Steel, Type 316
- Internal Linkage Stainless Steel, Type 316
- Replaceable Seat Buna-N
- External Fasteners Steel, A307, Zinc Plated

See Data Sheet 939SS.01 for Durovent™ all 316SS construction version

### Coating

- Standard: Uncoated internal, external enamel primer, 2 mil DFT
- Optional See Option P2

### Approvals & Certifications

- Complies with AWWA Standard C512

### Options/Accessories

- Option IV Inlet Isolating Valve – lever operated bronze ball valve (3" NPT and smaller inlet valves) Note: inlet valve included with backflush attachments.
- Option P2 316 Stainless Steel external fasteners and internal/external Carboline 891 NSF-61 certified 2-part epoxy, 6 mil DFT
- Option SC Bronze surge check (slow closing device) factory installed in the valve outlet

### Ordering Data

- Figure Number (935, 935F)
- Size (Inlet x Outlet)
- Options/Accessories

Non-Shock Working Water Pressure at up to 150F (66C)							
	Valve Only				Valve and Backflush Attachments*		
Figure Numbers	935				935F		
Inlet Size	2" NPT	2" NPT	3" NPT	4" NPT	2" NPT	2" NPT	3" NPT
Outlet Size	1" NPT	2" NPT	2" NPT	4" NPT	1" NPT	2" NPT	2" NPT
Working Pressure	10-200 PSI				10-200 PSI		
Pressure Rating	200 PSI				200 PSI		
Hydro Test	300 PSI				300 PSI		

\* See Data Sheet 935.02 for 4" and 6" flanged valves with backflush attachments

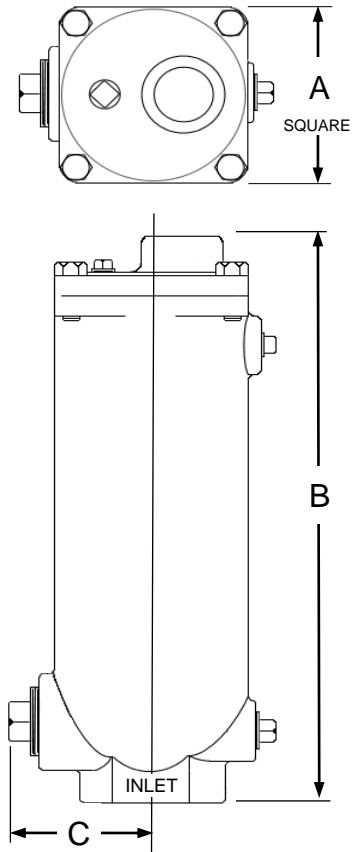
Data Sheet 935.01D

Pressure at Valve Inlet	Air Outflow Rate, Standard Cubic Feet/Min (SCFM)				
	2" x 1"	2"	3" x 2"	3"	4"
1 PSI	78	279	279	706	1208
2 PSI	114	407	407	1031	1762
3 PSI	144	513	513	1300	2222
4 PSI	171	609	609	1543	2637
5 PSI	196	699	699	1770	3027

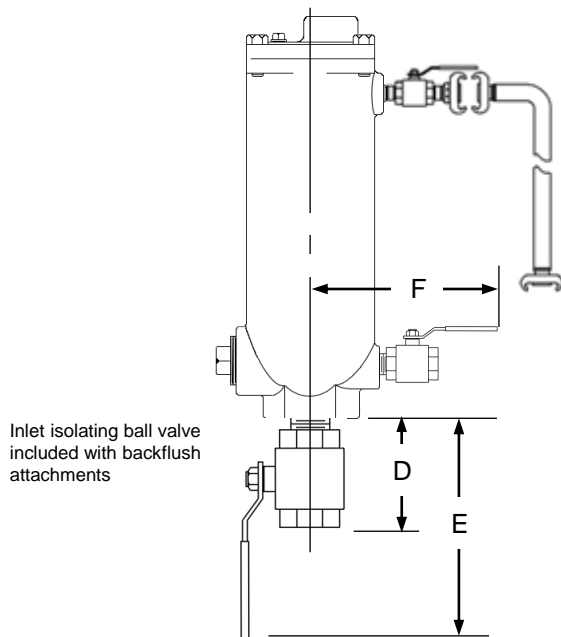
Value is rate at which air is vented from pipeline/system during filling at valve inlet pressures shown. Inlet pressure during filling should not exceed 2 PSI. Size is inlet x outlet.

Pressure at Valve Inlet	Air Inflow Rate, Standard Cubic Feet/Min (SCFM)				
	2" x 1"	2"	3" x 2"	3"	4"
-1 PSIG	79	318	318	717	1275
-2 PSIG	112	451	451	1015	1804
-3 PSIG	138	552	552	1243	2210
-4 PSIG	159	637	637	1435	2551
-5 PSIG	178	713	713	1604	2853

Value is rate at which air is drawn into the valve at negative pipeline/system pressure shown. Size is inlet x outlet.



With INLET ISOLATING VALVE or BACKFLUSH ATTACHMENTS



SIZE	2'x1", 2"	3" x 2"	3"	4"
A	6½"	6½"	9½"	13½"
B	20½"	20½"	23½"	25½"
C	4½"	4½"	7"	7"
D	5"	8"	8"	NA
E	8"	13"	13"	NA
F	10"	10"	12"	NA
Valve Weight	60 lb.	60 lbs.	170 lb.	190 lbs.
Add for Inlet Isolating Valve	8 lbs.	20 lbs.	20 lbs.	NA
Add for Backflush Attachments	15 lbs.	27 lbs.	27 lbs.	NA

NA – Not Available on NPT inlet valve, see Data Sheet 939.02

All dimensions and weights are approximate. If critical request certified drawings