

# 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

### 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

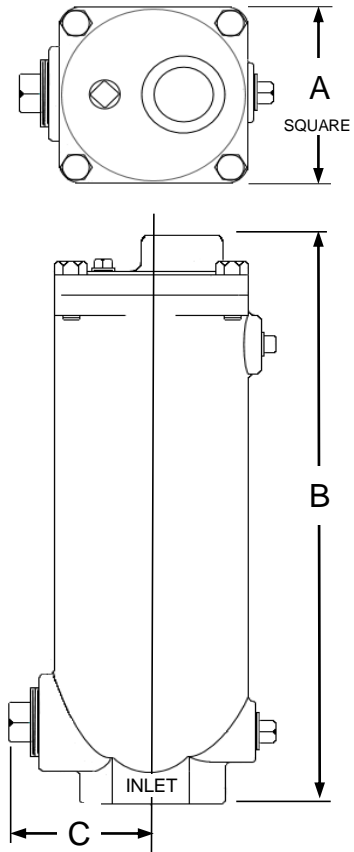
Data Sheet 935.01B

Pressure at Valve Inlet	Air Outflow Rate, Standard Cubic Feet/Min (SCFM)				
	2" x 1"	2"	3" x 2"	3"	4"
1 PSI	78.5	314	314	707	1260
2 PSI	111	444	444	1000	1780
3 PSI	136	544	544	1220	2180
4 PSI	157	628	628	1410	2510
5 PSI	176	703	703	1580	2810

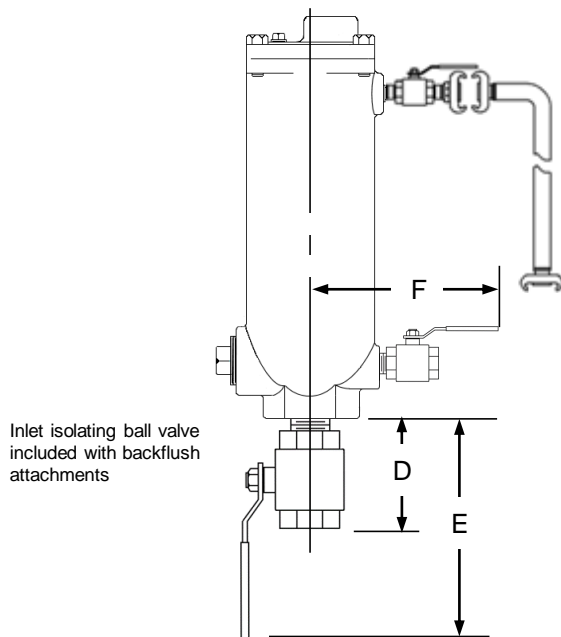
Value is rate at which air is vented from pipeline/system during filling at valve inlet pressures shown. Inlet pressure during filling should not exceed 2 PSI. Size is inlet x outlet.

Pressure at Valve Inlet	Air Inflow Rate, Standard Cubic Feet/Min (SCFM)				
	2" x 1"	2"	3" x 2"	3"	4"
-1 PSIG	80	320	320	721	1280
-2 PSIG	113	453	453	1020	1810
-3 PSIG	138	555	555	1250	2220
-4 PSIG	160	641	641	1440	2560
-5 PSIG	179	716	716 <td 1610	2870	

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



Inlet isolating ball valve included with 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