

# Figures 959SS, 959SSF Durovent™

## Dual Short Body Sewage Combination Air Valves

### All316 Stainless Steel Construction

#### Description

GA Industries Figure 959SS Dual Body Combination Air Valves consist of a Figure 939SS Short Body Air & Vacuum Valve and a Figure 929SS Short Body Air Release Valve piped together into an assembly. The Figure 939SS vents air and gas during forcemain filling and admits air during draining while residual air and gas are released during operation through the Figure 929SS.

Whether due to the fluid itself or ambient conditions, Durovent® Wastewater Air Valves provide the ultimate in corrosion resistance since the body, cover, float, internal linkage, external fasteners and pipe plugs are all made from Type 316 stainless steel. The Figure 959SS is especially suited to shallow cover installations where the standard elongated body valves will not fit..

Figure 959SSL provides a larger orifice for faster release of residual air and gas on systems operating at 75 PSI or lower.

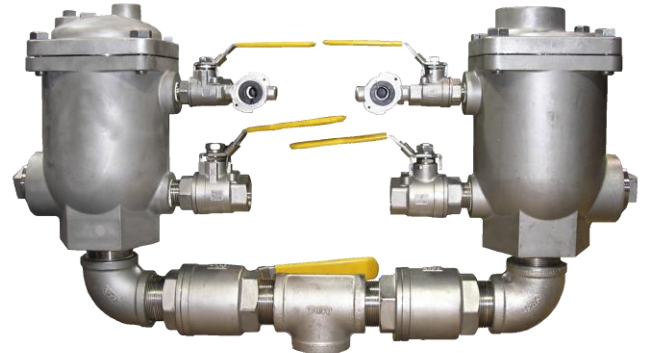
Figure 959SSF includes optional “back flushing attachments” to facilitate cleaning sludge and debris from the valve

#### Product Features

- Short body construction, less than 18” tall
- Full size large orifice for maximum air outflow and inflow rates
- Heavy duty and corrosion resistant cast Type 316 stainless steel construction
- Tight sealing and easily replaceable rubber seat
- 2” NPT plugged side port allows removal of large debris
- Inlet isolating ball valves standard

#### Standard Materials

- Body & Cover      Stainless Steel, Type 316
- Float                Stainless Steel, Type 316
- Internal Linkage   Stainless Steel, Type 316
- Replaceable Seat   Buna-N
- Connecting Piping   Stainless Steel, Type 316
- Isolating Valves    Stainless Steel, Type 316
- External Fasteners   Stainless Steel, Type 316



Shown with optional backflush attachments (rubber hose not shown)

#### Approvals & Certifications

- Complies with AWWA Standard C512

#### Options/Accessories

- Option BA      Build America/Buy America (BABA) and American Iron and Steel (AIS) Compliant
- Option FA      316SS Backflush Attachments – inlet isolating valve, ½” flushing valve, 1” blow off valve, quick connect couplings and 5 ft. rubber hose
- Option IV      Inlet Isolating Valve – lever operated 316SS ball valve (included with backflush attachments)
- Option US      American Iron and Steel (AIS) Compliant
- Option VC:     Vacuum Check – prevents air re-entry if internal pressure falls below atmospheric

#### Ordering Data

- Figure Number (959SS, 959SSF, 959SSL or 959SSLF)
- Size
- Options/Accessories

Non-Shock Working Water Pressure at up to 150F (66C)				
Figure Number	959SSL, 959SSLF		959SS, 959SSF	
Size	2" x 1"	2"	2" x 1"	2"
Inlet Connection	2" NPT	2" NPT	2" NPT	2" NPT
Outlet Size	1" NPT	2" NPT	1" NPT	2" NPT
Air Release Orifice Diameter	0.313"		0.188"	
Working Pressure	10 – 75 PSI		10 – 150 PSI	
Pressure Rating	200 PSI		200 PSI	
Hydro Test	300 PSI		300 PSI	

Data Sheet 959SS.01F

**Air Vacuum Orifice**

Pressure at Valve Inlet	Air Outflow Rate, Standard Cubic Feet/Min (SCFM)	
	2" x 1"	2" x 2"
1 PSI	78	279
2 PSI	114	407
3 PSI	144	513
4 PSI	171	609
5 PSI	196	699

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.

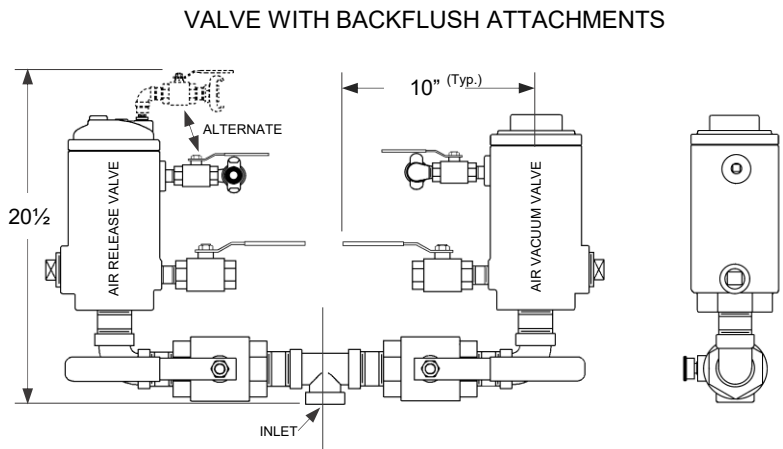
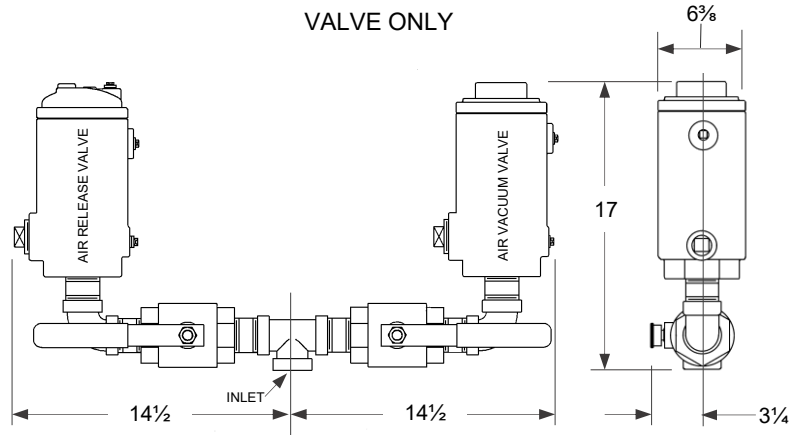
**Air Vacuum Orifice**

Pressure at Valve Inlet	Air Inflow Rate, Standard Cubic Feet/Min (SCFM)	
	2" x 1"	2" x 2"
-1 PSIG	79	318
-2 PSIG	112	451
-3 PSIG	138	552
-4 PSIG	159	637
-5 PSIG	178	713

Value is rate at which air is drawn into the valve at negative pipeline/system pressure shown. Multiply SCFM air inflow rate x 7.48 to convert to equivalent pipeline/system liquid draining rate in USGPM.

**Air Release Orifice**

Pressure At Valve Inlet	Air Venting Rate, Standard Cubic Feet/Min (SCFM)	
	Figure 959SSL	Figure 959SS
10 PSI	24.3	8.7
15 PSI	29.4	10.6
25 PSI	39.3	14.1
50 PSI	64.0	23.1
75 PSI	88.8	32.0
100 PSI	---	40.9
150 PSI	---	58.7



**Valve Weight**

SIZE (Inlet x Outlet)	2" X 1"	2" x 2"
Valve Weight	110	110
Add for Backflush Attachments	10	10

Dimensions in inches, weight in pounds.  
All dimensions and weights are approximate. If critical request certified drawings