

Figures 959SS, 959SSF Durovent™

Dual Short Body Sewage Combination Air Valves

Description

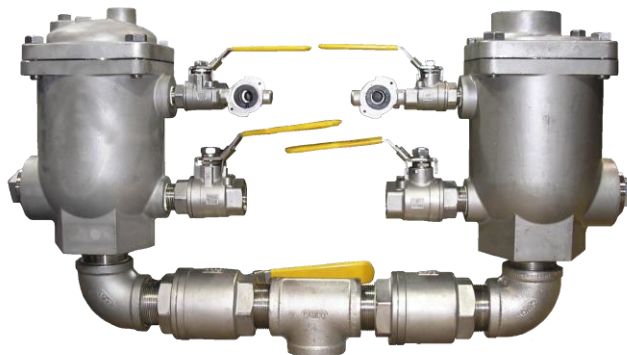
GA Industries Figure 959SS Dual Body Combination Air Valves consist of a Figure 935SS Short Body Air & Vacuum Valve and a Figure 929SS Short Body Air Release Valve piped together into an assembly. The Figure 939SS vents air and gas during forcemain filling and admits air during draining while residual 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

Data Sheet 959SS.01B



Shown with optional backflush attachments (rubber hose not shown)

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

Approvals & Certifications

- Complies with AWWA Standard C512

Ordering Data

- Figure Number (959SS, 959SSL, 959SSF, 959SSLF)
- Size

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.01B

Air Vacuum Orifice

Pressure at Valve Inlet	Air Outflow Rate, Standard Cubic Feet/Min (SCFM)	
	2" x 1"	2" x 2"
1 PSI	78.5	314
2 PSI	111	444
3 PSI	136	544
4 PSI	157	628
5 PSI	176	703

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

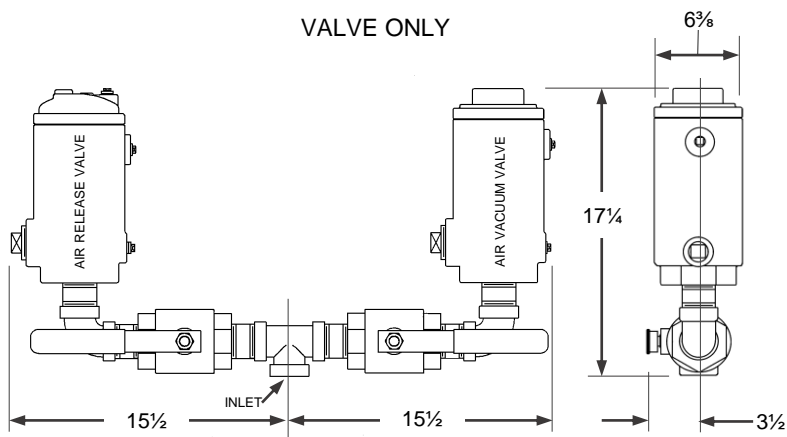
Pressure at Valve Inlet	Air Inflow Rate, Standard Cubic Feet/Min (SCFM)	
	2" x 1"	2" x 2"
-1 PSIG	80	320
-2 PSIG	113	453
-3 PSIG	138	555
-4 PSIG	160	641
-5 PSIG	179	716

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.

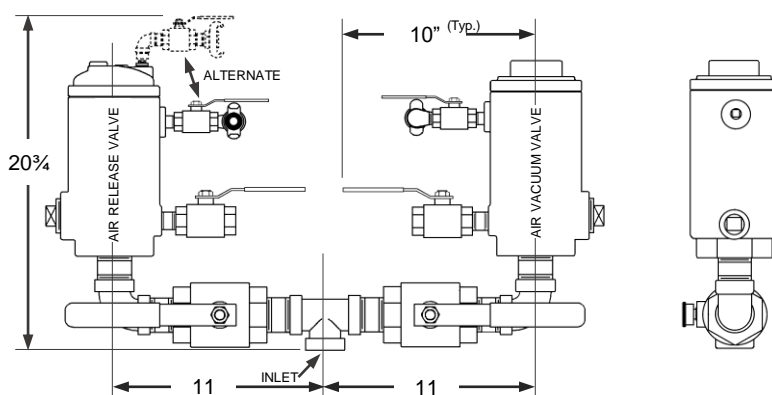
Air Release Orifice

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 ONLY



VALVE WITH BACKFLUSH ATTACHMENTS



Valve Weight

SIZE (Inlet x Outlet)	2" X 1"	2" x 2"
Valve Weight	110	110
Add for Backflush Attachments	15	15

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