

3" & 4" Figures 942SS, 942SS-D

Single Body Sewage Combination Air Valve

All 316 Stainless Steel Construction

Description

GA Industries Figure 942SS Combination Air Valves employ a large and small orifice in a single body to efficiently vent air and gas from sewage forcemains. Air is vented through the large orifice as the system is filled and then it closes tight once the system is full and pressurized. Residual air and gas is released through the small orifice while the system is in operation. The large orifice automatically opens to admit air when the forcemain is drained and/or a negative pressure occurs in the valve.

Figure 942SS are typically installed at system high points where air and sewage gas naturally rise during filling, collect during operation 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.

Product Features

- Full size large orifice for maximum air outflow and inflow rates
- Rugged and corrosion resistant cast Type 316 stainless steel body and cover
- Elongated body reduces potential for fouling
- Tight sealing and easily replaceable rubber seat
- 2" NPT plugged side port allows removal of large debris

Standard Materials

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

Approvals & Certifications

- Complies with AWWA Standard C512



Options/Accessories

- Option BA Build America/Buy America (BABA) and American Iron and Steel (AIS) Compliant
- Option US American Iron and Steel (AIS) Compliant

Ordering Data

- Figure Number (942SS)
- Size (Inlet x Outlet)
- Options/Accessories

Non-Shock Working Water Pressure at up to 150F (66C)		
Figure Numbers	942SS	942SS-D
Inlet Size	3" or 4" NPT	4" Class 125
Outlet Size	Same as Inlet	4" NPT
Working Pressure	10-150 PSI	
Pressure Rating	200 PSI	
Hydro Test	300 PSI	

Data Sheet 942SS.02A

Air Vacuum Orifice

Pressure at Valve Inlet	Air OUTFLOW Rate, Standard Cubic Feet/Min (SCFM)	
	3"	4"
1 PSI	706	1208
2 PSI	1031	1762
3 PSI	1300	2222
4 PSI	1543	2637
5 PSI	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.

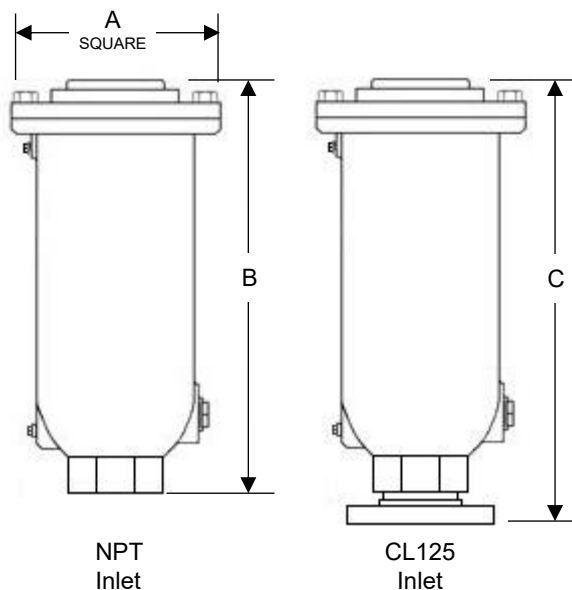
Air Release Orifice

Pressure At Valve Inlet	Air Release Orifice Venting Rate, Standard Cubic Feet/Min (SCFM)
	3" and 4"
10 PSI	8.7
15 PSI	10.6
25 PSI	14.1
50 PSI	23.1
75 PSI	32.0
100 PSI	40.9
150 PSI	58.7

Air Vacuum Orifice

Pressure at Valve Inlet	Air INFLOW Rate, Standard Cubic Feet/Min (SCFM)	
	3"	4"
-1 PSIG	717	1275
-2 PSIG	1015	1804
-3 PSIG	1243	2210
-4 PSIG	1435	2551
-5 PSIG	1604	2853

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



Installation Dimensions

SIZE	3" & 4" NPT	4" CL125
A (Square)	9½"	9½"
B	23½"	N/A
C	N/A	25½"
Valve Weight	170 lb.	190 lbs.

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