

Figures 942, 942SSF Durovent® Sewage Combination Air Valve

Description

GA Industries Figure 942SS Durovent® Combination Air Valves automatically and efficiently vent air during filling, release air and gas that have collected in the valve while under pressure and in operation and open to admit air during pipeline draining.

Whether due to the fluid itself or ambient conditions, Durovent® Wastewater Air Release 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 valves also employ a specially designed elongated body to maintain the solids bearing fluid far enough below the internal mechanism to minimize clogging and maintenance.

Figures 942SSF include optional “back flushing attachments” to facilitate cleaning sludge and debris from the valve.

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

Ordering Data

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



Approvals & Certifications

- Complies with AWWA Standard C512

Options/Accessories

- Option BA Build America/Buy America (BABA) and American Iron and Steel (AIS) Compliant
- Option CV Bronze surge check (regulated exhaust/slow closing device) installed in air valve outlet
- Option FA 316SS Backflush Attachments – inlet isolating valve, 1/2” 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

Non-Shock Working Water Pressure at up to 150F (66C)						
	Valve Only			Valve and Backflush Attachments		
Figure Numbers	942SS			942SSF		
Valve Size	2" x 1"	2"	3" x 2"	2" x1"	2"	3" x 2"
Inlet Size	2" NPT	2" NPT	3" NPT	2" NPT	2" NPT	3" NPT
Outlet Size	1" NPT	2" NPT	2" NPT	1" NPT	2" NPT	2" NPT
Working Pressure	10-150 PSI			10-150 PSI		
Pressure Rating	200 PSI			200 PSI		
Hydro Test	300 PSI			300 PSI		

Data Sheet 942SS.01H

Air Vacuum Orifice

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

Air Release Orifice

Pressure At Valve Inlet	Air Release Orifice Venting Rate, Standard Cubic Feet/Min (SCFM)
	2" x 1", 2" and 3" x 2"
10 PSI	2.2
15 PSI	2.6
25 PSI	3.5
50 PSI	5.8
75 PSI	8.0
100 PSI	10.2
150 PSI	14.7

Air Vacuum Orifice

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

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

Installation Dimensions

SIZE	2'x1", 2"	3" x 2"
A (Square)	6½"	6½"
B	20½"	20½"
C	4½"	4½"
D	5"	8"
E	8"	13"
F	10"	10"
Valve Weight	60 lb.	60 lbs.
Add for Inlet Isolating Valve Only	8 lbs.	20 lbs.
Add for Backflush Attachments	15 lbs.	27 lbs.

* For 4" valves with inlet isolating valve or backflush attachments, see Data Sheet 942.02
All dimensions and weights are approximate. If critical request certified drawings

