

INSTALLATION, OPERATION AND MAINTENANCE MANUAL

2x1", 2" & 3x2" Figure 957 and 957SS Dual Body Combination Air Valves for Sewage and Wastewater

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Section 1

INSTALLATION, OPERATION and MAINTENANCE

2x1", 2" & 3x2" Figures 957, 957L, 957SS and 957SSL Dual Body Combination Air Valves for Sewage

INTRODUCTION

This manual provides information to install, operate and maintain GA Industries dual short body combination air valves to ensure a long service life. The valve is ruggedly constructed to provide many decades of dependable service with minimal maintenance.

CAUTION

The valve is NOT recommended for use with toxic, corrosive, or flammable fluids.

The Shop Order (SO) Number, Figure Number, size, and pressure rating are stamped on a nameplate attached to the valve. Please refer to the SO number when ordering parts.

DESCRIPTION OF OPERATION

These dual body combination air valves consist of two individual air valves assembled and piped together at the factory: a Figure 935 air & vacuum valve and a Figure 927 high-capacity air release valve. Each valve is "normally open" and closes when water rises in the valve to lift the buoyant float and seal the orifice.

The Figure 935 air & vacuum valve has a large orifice that is the same size as the nominal size of the valve. During system filling, air is vented through the orifice at the same rate as the fluid is entering the system. When fluid rises in the valve it lifts the float to seal off the orifice. The valve will remain closed if there is positive pressure within the valve but automatically opens to admit air to alleviate the vacuum when the pipeline is drained and/or a negative pressure occurs inside the valve.

The Figure 927 air release valve has a small orifice that closes when fluid fills the valve. The valve's small orifice automatically opens to release air and sewage gas that accumulates in the valve while the system is pressurized and operational. The valve closes when the air is released. This cycle will occur as often as needed to prevent an excessive accumulation of air or sewage gas.

CONSTRUCTION

The air valves that comprise the Figure 957 have a cast iron body and cover while the air valves that comprise the Figure 957SS have a 316 stainless steel body and cover. All valves have 316 stainless steel floats and internal linkage mechanisms and Buna-N rubber seats.

RECEIVING AND STORAGE

Inspect the valve upon receipt for damage during shipment. Carefully unload all valves to the ground without dropping.

Valves should remain in a clean, dry, and weather protected area until installed.

INSTALLATION

The valve is typically installed at high points in the system where air and sewage gas naturally rise during filling and in operation and a vacuum first form during draining.

The combination air valve is installed on top of the pipeline in a vertical orientation. The standard connection to the forcemain is an NPT threaded connection.

Each air valve in the assembly is provided with an isolating valve so it may not be necessary to provide an isolating valve between the pipeline and the combination air valve.

Prior to installation ensure all debris, packing material or other foreign material has been removed from the valve.

If installed outdoors, below ground in a vault or in an unheated area, adequate freeze protection must be provided.

The valve should be installed with sufficient clearance to permit maintenance and removal of internal components.

Figures 957 and 957SS have a maximum working pressure of 150 PSI while the Figures 957L and 957SSL have a maximum working pressure of 75 PSI.

Lower heavy valves using slings or chains. Use appropriate sealant on threaded connections and screw valve assembly onto a pipe nipple.

START-UP

The valve does not require any calibration or adjustment prior to start-up.

PREVENTATIVE MAINTENANCE

No routine lubrication or adjustments are needed. Periodic visual inspection and testing should be performed to ensure the valve(s) are operating.

REPAIR INSTRUCTIONS

Instructions for the inspection, troubleshooting and repair of the air release and air & vacuum valves utilized in the GA Industries Figure 957 and 957SS are provided in the sections for each valve.

REPLACEMENT PARTS

Refer to the individual valve sections for applicable repair kits and parts. Genuine replacement parts are available from your local GA Industries representative or from the factory:

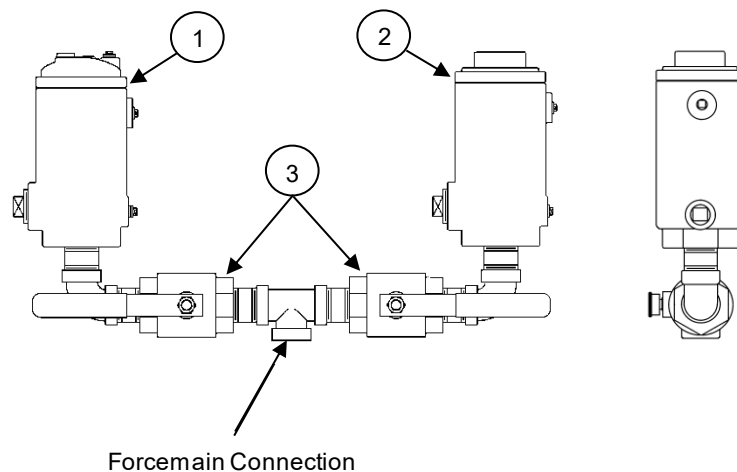
VAG USA, LLC
234 Clay Avenue
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Fax: 724-776-1254
E-mail: quotes-ga@vag-group.com

Please have the nameplate data available when ordering parts.

WARRANTY:

The Warranty for GA Industries valves is included in our Terms and Conditions which can be found here: <https://gaindustries.com/terms>

Item	Component
1	Figure 927 or 927SS Air Release Valve
2	Figure 935 or 935SS Air & Vacuum Valve
3	Ball Valve



Section 2

INSTALLATION, OPERATION AND MAINTENANCE MANUAL

FIGURES 935 & 935SS

2"x1", 2" & 3"x 2" Drawing EAV-7105 AIR & VACUUM VALVES FOR SEWAGE & WASTEWATER

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INSTALLATION, OPERATION and MAINTENANCE

2"x1", 2" & 3"x 2" Figure 935 Air & Vacuum Valves

INTRODUCTION

This manual will provide the information to properly install, operate and maintain the valve to ensure a long service life. The Air Release Valve is ruggedly constructed to provide years of trouble-free operation with minimal maintenance.

CAUTION

The valve is NOT recommended for use with toxic fluids, fuels or fluids containing hazardous gases

CAUTION

The valve will not function if used at a pressure higher than the maximum working pressure indicated on the nameplate.

The Shop Order (SO) Number, Figure Number, size and pressure rating are stamped on a nameplate attached to the valve. Please refer to the SO number when ordering parts.

DESCRIPTION OF OPERATION

The Figures 935 and 935SS Air & Vacuum Valve vents air and sewage gas as the system is being filled with fluid. When the system is full, fluid rises in the valve and lifts the float to close the valve. The valve remains closed until the system is drained or a negative pressure occurs within the valve/system. At that time the Figure 935 automatically opens to admit air to alleviate the vacuum. Figures 935 and 935SS Air & Vacuum valves are usually installed at high points in the system where air rises as during filling and vacuum first forms during draining.

RECEIVING AND STORAGE

Inspect the valve upon receipt for damage during shipment. Carefully unload all valves to the ground without dropping.

The valves should remain in a clean, dry and weather protected area until installed. For long term storage (greater than 6 months) the rubber surfaces of the seat should be coated with a non-toxic lubricant such as "SuperLube" made

by Synco Chemical. Do not expose the rubber parts to sunlight or ozone.

INSTALLATION

The Figure 935 and 935SS are standard with 2" or 3" NPT screwed pipeline connections. A flanged pipeline connection is provided on special order.

Consult the drawings of record to verify the configuration supplied and installed.

The valve must be installed in an upright vertical orientation, normally at a high point in the system.

If installed outdoors, below ground in a vault or in an unheated area, adequate freeze protection must be provided.

An isolating valve should be installed between the valve and the pipeline or system to facilitate maintenance (included with backflushing attachments).

Carefully screw threaded end valves onto pipe nipple using compatible thread sealant. Tighten valve using wrench flats. DO NOT OVER-TIGHTEN.

Flat-faced flanged valves should be mated with flat-faced flanges and full-face gaskets. If ring gaskets are used the bolt material shall be ASTM A307 Grade B (or equivalent). Higher strength bolting should only be used with full-face gaskets.

Lower heavy valves over the mating flange using slings or chains around the valve body. Lubricate the bolts or studs and insert around flange. Lightly tighten bolts until gaps are eliminated. Torque bolts in an alternating pattern in graduated steps. If leakage occurs wait 24 hours and re-torque the bolts but do not compress the gasket more than 50% or exceed bolt maximum torque rating.

VALVE CONSTRUCTION

The Figure 935 Sewage Air & Vacuum Valve has a cast iron body and cover while the Figure 935SS has a 316 stainless steel body and cover. Both have 316 stainless steel float, plug, seat and internal mechanism and a rubber seat. Refer to the List of Materials submitted for the order if non-standard materials were provided.

Refer to Page 5 for details of construction and parts location.

The Figure 935 and 935SS have a 10 to 200 PSI working pressure range.

The valve has an inlet connection at the bottom where the valve attaches to the system and a outlet connection at the top through which air leaves and enters the valve.

WARNING

Removing the valve from the line or disassembling the valve while there is pressure in the valve body may result in injury or damage to the valve

PREVENTIVE MAINTENANCE

Figure 935 Sewage Air Vacuum Valves require no scheduled lubrication or adjustment.

A periodic visual inspection should be performed to ensure the outlet piping is not obstructed and to verify there is no fluid leakage.

Depending on the nature of the fluid, sewage air valves may become clogged with sediment or grease and require periodic cleaning. To facilitate such cleaning GA Industries air valves with an "F" at the end of the Figure Number (e.g., 935F, 935SSF) were supplied with "backflushing attachments." Refer to the backflushing instructions on Page 4 of this manual for additional information.

TESTING

Valve operation can be easily tested. Close the inlet isolation valve and remove or loosen the pipe plug nearest the inlet to drain the water from the valve. The float should drop as the water leaves the valve. NOTE: A manual valve can be installed in place of the pipe plug to facilitate testing (valves are included with backflushing attachments).

Replace or tighten the pipe plug and slowly open the inlet isolating valve. After expelling air, the valve should close and seal tightly.

TROUBLESHOOTING

- Valve Does Not Close / Fluid Leakage
Verify debris has not collected on the seat preventing tight closure

Verify rubber seat and/or seating surfaces are not damaged

Verify float has buoyancy

Verify internal mechanism operates freely without binding or sticking

Verify the pressure at the valve inlet it at least 10 PSI

- Valve Does Not Open
Verify debris in the valve is not preventing the float from freely falling when fluid is drained from valve

Verify internal mechanism operates freely without binding or sticking

DISASSEMBLY

While small valves may be more easily serviced by removing it from the line, all valves can be serviced while the body remains connected to the pipeline. A skilled technician with proper tools should perform all work. No special tools are required.

Disassemble the valve only as far as needed to replace damaged or worn parts.

First ensure there is no pressure within the valve. Remove the cover bolts (12) and lift off cover (2) with internal mechanism attached. It may be necessary to pry the cover off. Be careful not to damage or lose the O-ring (13) unless it's being replaced.

Using a chain or strap wrench, unscrew the cage (3) from the cover (2) being careful not to lose the cage O-ring (16) unless it's being replaced.

Remove the two spring pins (20) from the universal coupling

Unscrew the seat (4) from the cage (3) being careful not to lose the renewable seat (14) unless it's being replaced. Remove the plug (5) with connector (6) attached and the bushing (21). Note: Bushing is only supplied in older valves with ductile iron cage.

Unscrew the connector (6) from the plug (5) and stud (7) from plug or connector. It may be necessary to apply heat as these parts are secured with Loctite.

Loosen hex nut (1) and unscrew float ball (11) from float rod (9). It may be necessary to apply heat as these parts are secured with Loctite.

Remove the float screw (23), lock washer (22) and float hood (10) from the float ball (11). Apply heat if necessary.

Inspect all parts for wear and damage. Minor scratches and dents in the float are normal. Some floats may contain sand for added weight but if water is detected replace the float. Carefully clean the orifice of scale. Replace damaged parts.

REASSEMBLY

Clean all parts especially seating and sealing surfaces before reassembling valve. Worn parts should be replaced during re-assembly.

Apply Loctite 263 to threads on one end of stud (7), install in plug (5) and tighten. Install bushing (if needed) in cage.

Lubricate and install renewable seat (14) in plug and drop plug into cage (3). Install seat (4) over the plug stem, thread into cage and tighten.

Apply Loctite 263 to exposed threads on stud (7), screw on the connector (16) and tighten.

Lubricate and place O-ring (16) in cage (3), install in cover (2) and tighten.

Install hex nut (19) and lock washer (22) on end of float rod (9). Apply Loctite 380 to threads and screw float ball (11) on to float rod (9) until tight. Tighten hex nut to secure.

Install spring pins (20) in universal coupling (8) to connect float rod (9) to connector (6).

Ensure mechanism operates freely when float ball is lifted and allowed to drop.

Apply Loctite 380 to threads on float screw (13) and install float screw, lock washer (22) and float hood (10) on bottom of float ball (11).

Lubricate cover O-ring (13) in cover (2) and install on body (1) ensuring O-ring is retained. Install the cover bolts (16) and tighten in an alternating pattern.

Carefully introduce pressure and check for leaks.

BACKFLUSHING INSTRUCTIONS

Follow all local cross-connection and safety codes and regulations!

To determine if a GA Industries sewage air valve needs cleaning or backflushing:

- Close the inlet isolating valve then slowly open the ½" flushing ball valve (if installed) or slowly remove the pipe plug at the top of air valve to relieve internal pressure.
- Open the 1" blow off ball valve (if installed) or remove the pipe plug near the bottom. Liquid should freely drain from the valve body. If it does not, then the valve is likely in need of cleaning or backflushing.

To clean a GA Industries sewage air release valve equipped with backflushing attachments:

- Close the inlet isolating valve and then slowly open the ½" flushing valve to relieve internal pressure.
- Open the 1" blow off valve
- Connect the ½" flushing valve to a pressurized source of clean water using the rubber hose provided with the backflushing attachments.
- Introduce flushing water until liquid runs freely from the blow off valve.
- Shut off and disconnect the supply of clean water and close the blow off and flushing valves.
- Slowly open the inlet isolating valve. The air release valve should exhaust air and then close tightly

REPLACEMENT PARTS

Genuine replacement parts are available from your local VAG/GA Industries representative or from the factory:

VAG USA, LLC
 234 Clay Avenue
 Mars, PA 16046 USA
 Telephone: 724-776-1020
 Fax: 724-776-1254
 E-mail: quotes-ga@vag-group.com

Please have the nameplate data available when ordering parts.

2"x1", 2" and 3" x 2" Figure 935 and 935SS Parts List

Item	Description	Standard Material
1	Body	Cast Iron or 316 SS*
2	Cover	Cast Iron or 316 SS*
3	Cage**	316 Stainless Steel
4	Seat	316 Stainless Steel
5	Plug	316 Stainless Steel
6	Connector	316 Stainless Steel
7	Stud	304 Stainless Steel
8	Universal Coupling	316 Stainless Steel
9	Float Rod	316 Stainless Steel
10	Float Hood	316 Stainless Steel
11	Float Ball	316 Stainless Steel
12	Float Ball	316 Stainless Steel
13	Cover O-Ring	Buna-N Rubber
14	Renewable Seat	Buna-N Rubber
15	Cage O-Ring	Buna-N Rubber
16	1/2" Pipe Plug	Steel or 316SS*
17	1" Pipe Plug	Cast Iron or 316 SS*
18	2" Pipe Plug	Cast Iron or 316 SS*
19	Hex Nut	304 Stainless Steel
20	Spring Pin	302 Stainless Steel
21	Bushing**	316 Stainless Steel
22	Lock Washer	410 Stainless Steel
23	Float Screw	304 Stainless Steel
24	Cover Bolts	Zinc Plated Steel or 316 SS***

* Figure 935SS standard 316SS body and cover

** Older cast iron body valves have a ductile iron cage with bushing. Bushing not used with 316SS cage.

*** Figure 942SS standard 316SS cover bolts, optional on Figure 942.

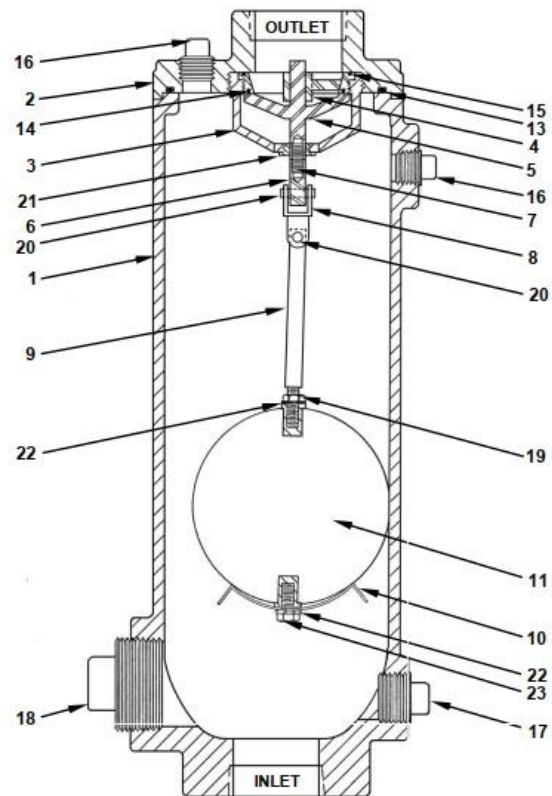
WARRANTY

The Warranty for GA Industries valves is included in our Terms and Conditions which can be found here: <https://gaindustries.com/terms>

REPAIR KITS

Soft Goods Kit A935-2 (Part Number 2-80-11000-019) contains Items 13, 14 and 15

Other parts are ordered individually.



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Section 3

INSTALLATION, OPERATION AND MAINTENANCE MANUAL

FIGURE 927

HIGH-CAPACITY AIR RELEASE VALVES FOR SEWAGE & WASTEWATER

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INSTALLATION, OPERATION and MAINTENANCE

Figure 927 Sewage Air Release Valves

INTRODUCTION

This manual will provide the information to properly install, operate and maintain the valve to ensure a long service life. The Air Release Valve is ruggedly constructed to provide years of trouble-free operation with minimal maintenance.

CAUTION

The valve is NOT recommended for use with toxic fluids, fuels or fluids containing hazardous gases

CAUTION

The valve will not function if used at a pressure higher than the maximum working pressure indicated on the nameplate.

The Shop Order (SO) Number, Figure Number, size and pressure rating are stamped on a nameplate attached to the valve. Please refer to the SO number when ordering parts.

DESCRIPTION OF OPERATION

The Figure 927 Air Release Valve is designed to automatically vent air and sewage gas that has accumulated within the valve. These valves are usually installed at high points in the system where air tends to collect. The valve as shipped is "normally open" and will vent air through its orifice at the top of the valve. The float rises when water enters the valve and closes the orifice. Air from the system accumulates in the valve forcing the water level down until the float drops and opens the venting orifice. As air is released the water level rises lifting the float and re-closing the valve.

This sequence occurs as often as necessary to release air that has collected in the valve.

RECEIVING AND STORAGE

Inspect the valve upon receipt for damage during shipment. Carefully unload all valves to the ground without dropping.

The valves should remain in a clean, dry and weather protected area until installed. For long term storage (greater than 6 months) the rubber surfaces of the seat should be coated with a non-toxic lubricant such as "SuperLube" made by Synco Chemical. Do not expose the rubber parts to sunlight or ozone.

INSTALLATION

The Figure 927 is standard with 2" or 3" NPT or 4" flanged pipeline connection, all with 1" NPT outlet.

Consult the drawings of record to verify the configuration supplied and installed.

The valve must be installed in an upright vertical orientation, normally at a high point in the system.

If installed outdoors, below ground in a vault or in an unheated area, adequate freeze protection must be provided.

An isolating valve should be installed between the valve and the pipeline or system to facilitate maintenance (included with backflushing attachments).

Carefully screw threaded end valves onto pipe nipple using compatible thread sealant. Tighten valve using wrench flats. DO NOT OVERTIGHTEN.

Flat-faced flanged valves should be mated with flat-faced flanges and full-face gaskets. If ring gaskets are used the bolt material shall be ASTM A307 Grade B (or equivalent). Higher strength bolting should only be used with full-face gaskets.

Lower heavy valves over the mating flange using slings or chains around the valve body. Lubricate the bolts or studs and insert around flange. Lightly tighten bolts until gaps are eliminated. Torque bolts in an alternating

pattern in graduated steps. If leakage occurs wait 24 hours and re-torque the bolts but do not compress the gasket more than 50% or exceed bolt maximum torque rating.

VALVE CONSTRUCTION

The standard Figure 927 Sewage Air Release Valve has a cast iron body, stainless steel float and linkage mechanism and a rubber seat. Refer to the List of Materials submitted for the order if non-standard materials were provided.

Refer to Page 5 for details of construction and parts location.

The Figure 927 has a 10 to 150 PSI working pressure range while the Figure 927L has a 10 to 75 PSI working pressure range.

The valve has an inlet connection at the bottom where the valve attaches to the system and a smaller outlet connection at the top through which air leaves the valve.

WARNING
Removing the valve from the line or disassembling the valve while there is pressure in the valve body may result in injury or damage to the valve

PREVENTIVE MAINTENANCE

Figure 927 Sewage Air Release Valves require no scheduled lubrication or adjustment.

A periodic visual inspection should be performed to ensure the outlet piping is not obstructed and to verify there is no fluid leakage.

Depending on the nature of the fluid, sewage air valves may become clogged with sediment or grease and require periodic cleaning. To facilitate such cleaning VAG/GA Industries air valves with an "F" at the end of the Figure Number (e.g., 927F, 927LF) were supplied with "backflushing attachments." Refer to the backflushing instructions on Page 4 of this manual for additional information.

TESTING

Valve operation can be easily tested. Close the inlet isolation valve and remove or loosen the pipe plug nearest the inlet to drain the water from the valve. The float should drop as the water leaves the valve. NOTE: A manual valve can be installed in place of the pipe plug to

facilitate testing (valves are included with backflushing attachments).

Replace or tighten the pipe plug and slowly open the inlet isolating valve. After expelling air, the valve should close and seal tightly.

TROUBLESHOOTING

- Valve Does Not Close / Fluid Leakage
Verify debris has not collected on the seat preventing tight closure

Verify rubber orifice button and/or orifice seating surfaces are not damaged

Verify float has buoyancy

Verify linkage mechanism operates freely without binding or sticking

Verify the pressure at the valve inlet it at least 10 PSI

- Valve Does Not Open
Verify debris in the valve is not preventing the float from freely falling when fluid is drained from valve

Verify linkage mechanism operates freely without binding or sticking

Verify the pressure at the valve inlet does not exceed the valve's maximum working pressure

DISASSEMBLY

While small valves may be more easily serviced by removing it from the line, all valves can be serviced while the body remains connected to the pipeline. A skilled technician with proper tools should perform all work. No special tools are required.

Disassemble the valve only as far as needed to replace damaged or worn parts.

First ensure there is no pressure within the valve. Remove the cover bolts (16) and lift off cover (2) with float and linkage attached. It may be necessary to pry the cover off. Be careful not to damage or lose the O-ring (10) unless it's being replaced.

Remove the two spring pins (13) connecting the lever arm (11) and float arm (12) to the leverage

bracket (3). The float and linkage will be free from the cover.

Remove the hex nut (8) and lock washer (9) and unscrew the orifice button (7) from the lever arm (11).

Remove the bracket screw (5) to remove the leverage bracket (3). Using a hex socket remove the orifice (4) from the cover.

Remove the spring pins (13) connecting the valve links (14) to the float arm (12). Remove the spring pins (13) from the universal coupling (15). Loosen the hex nut (8a) and lock washer (25) and unscrew the float rod (20) from the float ball (21). It may be necessary to apply some heat as the float rod connection is secured with Loctite.

Once they are connected, it's not practical to separate the two floats.

Remove the float hood bolt (23), lock washer (25) and float hood (22) from the lower float.

Inspect all parts for wear and damage. Minor scratches and dents in the float are normal. Some floats may contain sand for added weight but if water is detected replace the float. Carefully clean the orifice of scale. Replace damaged parts.

REASSEMBLY

Clean all parts especially seating and sealing surfaces before reassembling valve. Worn parts should be replaced during re-assembly.

Apply Loctite® PST thread sealant to orifice (4) and thread into cover. Torque to 22 ft-lbs (maximum).

Install bracket (3), bracket screws (5) and lock washer (6).

Thread orifice button (7) all the way into lever arm (11) and install hex nut (8) and lockwasher (9) but do not tighten. Connect the lever arm (11) and float arm (12) to the bracket (3) using two spring pins (13).

Adjust the orifice button (7) so that the end of the lever arm (11) nearest the orifice button is about 1/16" (1.6mm) farther from the cover than the opposite end when the orifice button (7) is

gently resting on the orifice (4). Secure by tightening hex nut (8).

Install valve links (14) and spring pins (13) to connect the float arm (12) to the lever arm (11).

Apply Loctite 263 to one end of the connector (24) and install in one of the floats. Apply Loctite 263 to the exposed end of the connector and screw on the second float (21) and tighten.

Apply Loctite 263 to threads on float rod (20). Install lock washer (25) and thread float rod into float ball and tighten. Apply Loctite 380 to float hood bolt (22) threads, install lock washer (25) and float hood (22) onto lower float.

Connect float rod (20) to float arm (2) by installing spring pins (13) in universal coupling (15).

Verify free movement of linkage mechanism and that the orifice button (7) presses against the orifice (4) when the float rises and pulls away when allowed to fall.

Lubricate and place O-ring (10) in cover (2) and carefully place cover (2) on body (1) ensuring o-ring is retained. Install the cover bolts (16) and tighten in an alternating pattern.

Carefully introduce pressure and check for leaks.

BACKFLUSHING INSTRUCTIONS

Follow all local cross-connection and safety codes and regulations!

To determine if a GA Industries sewage air valve needs cleaning or backflushing:

- Close the inlet isolating valve then slowly open the ½" flushing ball valve (if installed) or slowly remove the pipe plug at the top of air valve to relieve internal pressure.
- Open the 1" blow off ball valve (if installed) or remove the pipe plug near the bottom. Liquid should freely drain from the valve body. If it does not, then the valve is likely in need of cleaning or backflushing.

To clean a GA Industries sewage air release valve equipped with backflushing attachments:

- Close the inlet isolating valve and then slowly open the ½" flushing valve to relieve internal pressure.
- Open the 1" blow off valve
- Connect the ½" flushing valve to a pressurized source of clean water using the rubber hose provided with the backflushing attachments.
- Introduce flushing water until liquid runs freely from the blow off valve.
- Shut off and disconnect the supply of clean water and close the blow off and flushing valves.
- Slowly open the inlet isolating valve. The air release valve should exhaust air and then close tightly

REPAIR KITS

Soft Goods Kit A927 (Part Number 2-80-11000-008) contains Items 7, 8, 9 and 10

Linkage Kit AL927 (Part Number 2-80-11000-084) contains Items 3, 5, 6, 8a, 11, 12, 13, 14, 15 and 20

Figure 927 Parts List

Item	Description	Standard Material
1	Body	Cast Iron
2	Cover	Cast Iron
3	Leverage Bracket	316 Stainless Steel
4	Orifice	316 Stainless Steel
5	Bracket Screw	304 Stainless Steel
6	Lock Washer	302 Stainless Steel
7	Orifice Button	Buna-N Rubber/SS
8	Hex Nut	304 Stainless Steel
8a	Hex Nut	304 Stainless Steel
9	Lock Washer	410 Stainless Steel
10	O-Ring	Buna-N Rubber
11	Lever Arm	316 Stainless Steel
12	Float Arm	316 Stainless Steel
13	Spring Pin	316 Stainless Steel
14	Valve Link	316 Stainless Steel
15	Universal Coupling	316 Stainless Steel
16	Cover Bolt	Zinc Plated Steel
17	½" Pipe Plug	Steel
18	1" Pipe Plug	Malleable Iron
19	2" Pipe Plug	Malleable Iron
20	Float Rod	316 Stainless Steel
21	Float Ball	316 Stainless Steel
22	Float Hood	316 Stainless Steel
23	Float Hood Bolt	Nylon
24	Connector	304 Stainless Steel
25	Lock Washer	410 Stainless Steel

REPLACEMENT PARTS

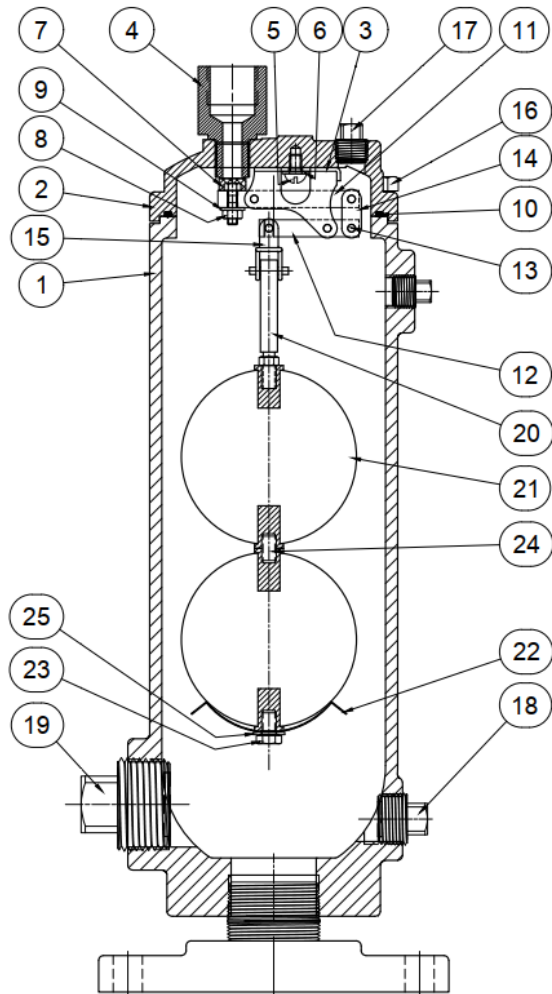
Genuine replacement parts are available from your local VAG/GA Industries representative or from the factory:

VAG USA, LLC
 234 Clay Avenue
 Mars, PA 16046 USA
 Telephone: 724-776-1020
 Fax: 724-776-1254
 E-mail: quotes-ga@vag-group.com

Please have the nameplate data available when ordering parts.

WARRANTY

The Warranty for GA Industries valves is included in our Terms and Conditions which can be found here: <https://gaindustries.com/terms>



Shown with optional 4" flanged pipeline connection

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