



GVRA Owner's Manual

Air, Manual, and Hydraulic Operated Models GU00000 to GU30000



GVRA Models GU00000 to GU30000

Girard Vapor Recovery Adapter

The standard unit can be supplied with a 3" straight threaded female swivel outlet for mounting on a 3" clean-out nipple and one or two 2" NPT outlets to allow for both top and bottom vapor recovery.

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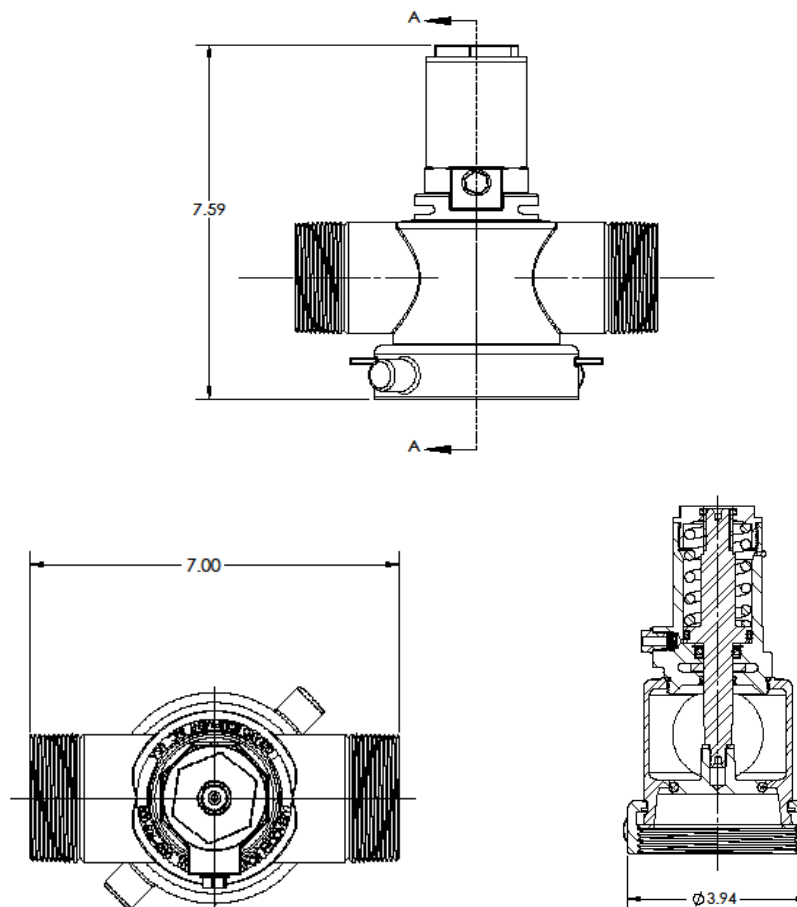
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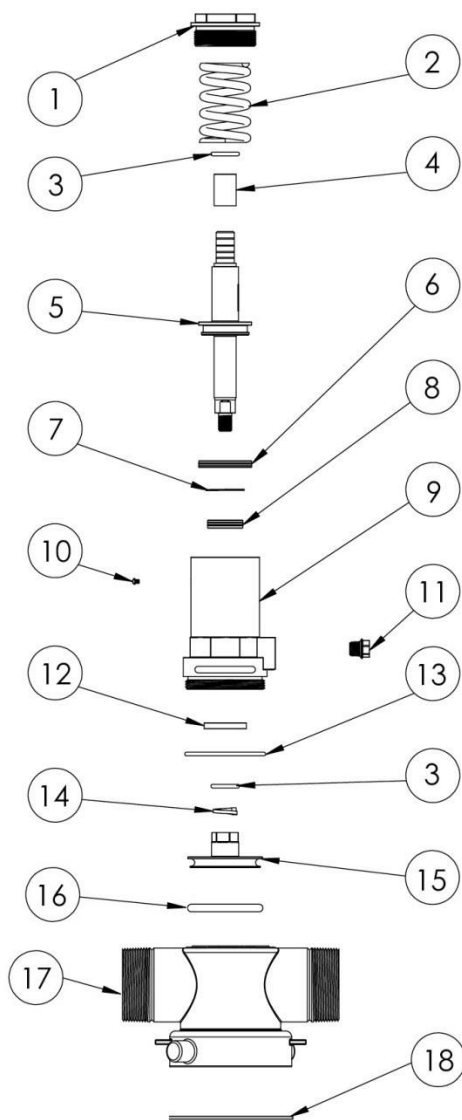
Technical Data

1. Overall height: 7.5"
2. All components constructed from corrosion resistant 316 Stainless Steel
3. 3" NPS swivel mounts on a 3" tank nozzle
4. MAWP: 35 PSIG (2.5 BAR)
5. Test pressure: 2,000 PSIG
6. Flow rate (air): 443 SCFM @ 5 PSIG
7. Two outlets (T-style), for both top and bottom vapor recovery
8. Tef-O-Sil seals (Teflon® encapsulated O-ring)
9. Constructed from castings made in the USA



Exploded View of Product

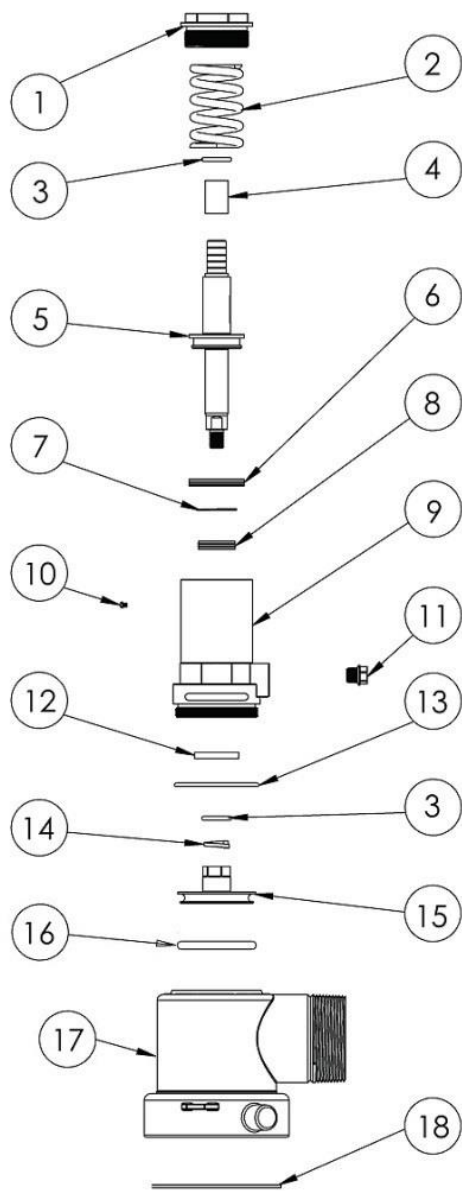
GU02000 - Dual Outlet Vapor Recovery Adapter



ITEM	PART NO.	DESCRIPTION
1	GV01000	Cylinder Cap
2	GV10000	Spring
3	GV02000	Rod O-Ring
4	GV06800	Indicator
5	GV06000	Piston Rod
6	GV08010	Upper Hydraulic Seal
7	GV13500	Internal Retaining Ring Stainless Steel
8	GV08000	Lower Hydraulic Seal
9	GV03000	Cylinder
10	GV80000	Plug Nail
11	GV40000	Screw Caplug
12	GV09000	Wiper
13	GV05000	Cylinder Housing O-Ring
14	GQ97900	Split Ring Lock Washer
15	GV11000	Poppet
16	GV12000	Poppet O-Ring
17	GV14015	BXT Swivel Swedge Assembly
18	GM30030	3" Orange DuraSeal Ring Gasket

Exploded View of Product

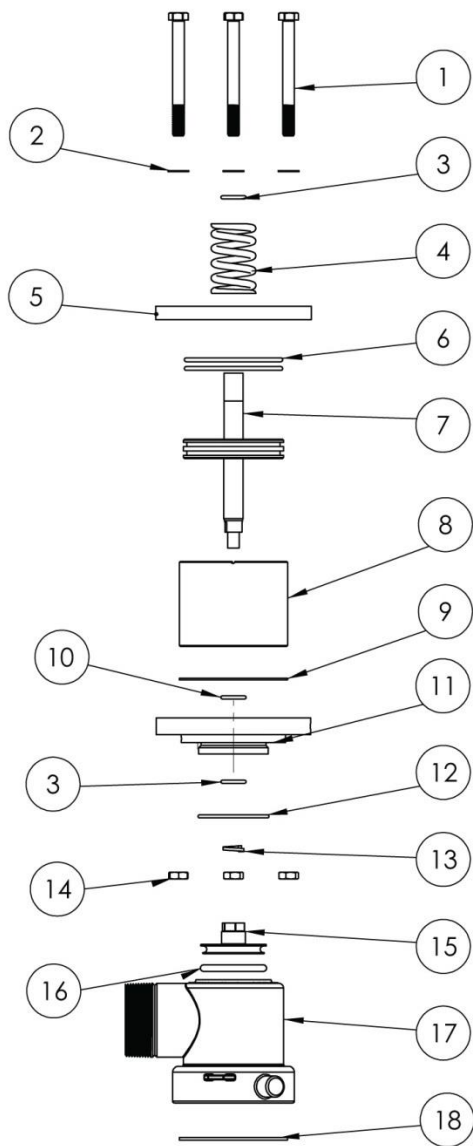
GU00000 - Single Outlet Vapor Recovery Adapter



ITEM	PART NO.	DESCRIPTION
1	GV01000	Cylinder Cap
2	GV10000	Spring
3	GV02000	Rod O-Ring
4	GV06800	Indicator
5	GV06000	Piston Rod
6	GV08010	Upper Hydraulic Seal
7	GV13500	Internal Retaining Ring Stainless Steel
8	GV08000	Lower Hydraulic Seal
9	GV03000	Cylinder
10	GV80000	Plug Nail
11	GV40000	Screw Caplug
12	GV09000	Wiper
13	GV05000	Cylinder Housing O-Ring
14	GQ97900	Split Ring Lock Washer
15	GV11000	Poppet
16	GV12000	Poppet O-Ring
17	GV14000	Standard Swivel Swage Assembly
18	GM30030	3" Orange DuraSeal Ring Gasket

Exploded View of Product

GU00010 - Air Actuated Vapor Recovery Adapter



ITEM	PART NO.	DESCRIPTION
1	GV98050	Hex Head Cap Screw
2	GV13000	3/8 Internal Tooth Lock Washer
3	GV02000	Rod O-Ring
4	GV10000	Spring
5	GV20030	Top Flange
6	GV51045	Air Upper Seal
7	GV06005	Air Rod
8	GV20020	Tube
9	GV20021	Tube Seal
10	GV51040	O-Ring Buna
11	GV20040	Bottom Flange
12	GV05000	Cylinder Housing O-Ring
13	GQ97900	Split Ring Lock Washer
14	GV98055	Jam Nuts
15	GV11000	Poppet
16	GV12000	Poppet O-Ring
17	GV14000	Standard Housing Swage
18	GM30030	3" Orange DuraSeal Ring Gasket

Safety

General Safety Information



WARNING: All Safety regulations must be followed during the operation of this product. Follow maintenance instructions as set forth in this manual to avoid serious injury. Do not attempt to disassemble the device unless you have been properly trained by a Girard Equipment representative.

Product Storage

- Temperature Range: -40° F to 250° F
- Humidity Range: N/A
- Altitude Range: N/A

Store this device, with the 3" outlet face down, in its original container, to maintain a dust-free environment. We recommend that stored valves be retested every year or as required by DOT regulations. The initial test date will be listed on the valve certificate.

Product Handling

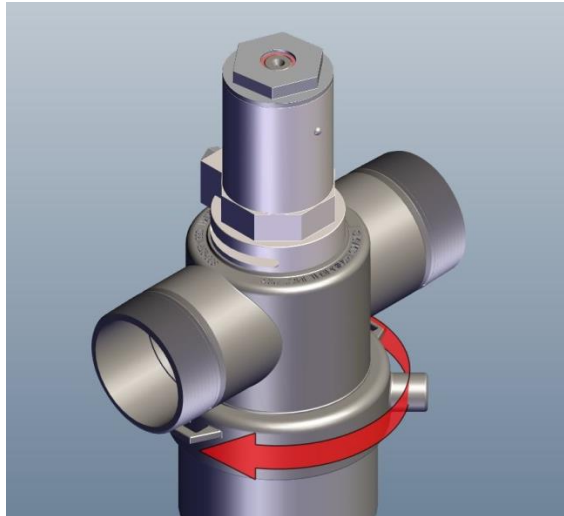
Follow OSHA practices for lifting of heavy objects.

Disposal Requirements

No Special Requirements.

Installation Instructions

- 1) Remove valve from packaging.
- 2) Align 3" straight threaded swivel with the 3" tank nozzle (clean-out nipple).
- 3) Turn the swivel clockwise to tighten onto the tank.



Operation Instructions

NOTE: It is the responsibility of all persons performing the operation of the Girard Vapory Recovery Adapter to read and understand this procedure before starting work. Before using any Girard product with a hydraulic actuator, follow the procedure for bleeding hydraulic lines, located under the maintenance section of this manual.

No instructions are needed during the operation. This vapory recovery adapter functions automatically.

Maintenance Instructions



WARNING: This device is under pressure that could cause injury. Do not attempt to disassemble this device unless you have been properly trained by a Girard Equipment representative. Follow all installation, maintenance, and repair instructions set forth in this manual to avoid injury.

O-Ring and Gasket Maintenance

All soft goods should be replaced during regular maintenance and requalification, or if device fails an in-service STD (Start to Discharge) pressure test.

- 1) Bleed hydraulic lines to ensure there is no hydraulic fluid present in housing, and disconnect all lines from assembly.
- 2) Use GO45000 4 x 3" spanner wrench to unscrew the GVRA from its port on the tank.



- 3) Use a 2" socket wrench to unscrew the GVRA from the lower housing. Insert the wooden end of a hammer or similar tool into the housing port to gain leverage when unscrewing the GVRA.



- 4) Use a 1.5" socket wrench to remove the cap from the GVRA.



- 5) Remove and replace the rod O-ring.



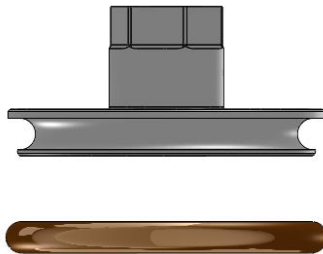
- 6) Remove the spring from the upper housing.



- 7) Remove poppet from piston rod and set lock washer aside.



- 8) Remove and replace poppet O-ring.



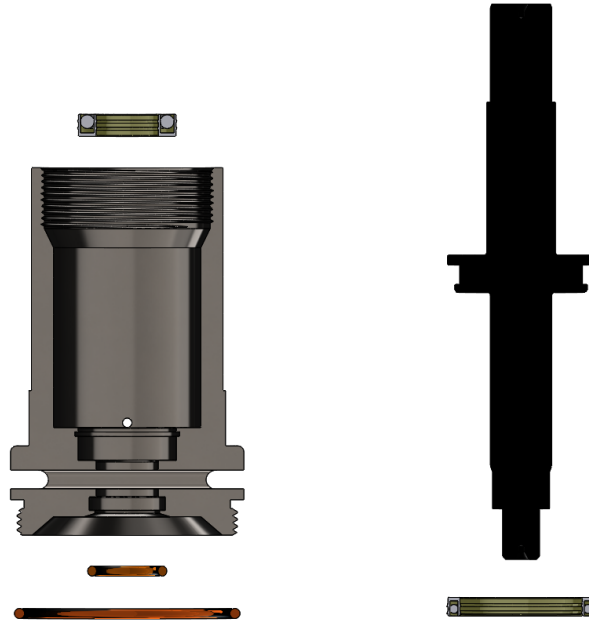
- 9) Remove piston rod and allow wiper to slide out of groove in assembly.



- 10) Remove retaining ring.



11) Remove and replace hydraulic seals and remaining O-rings.



12) Re-assemble, following steps 2-11 in reverse order.

Test Instructions

1. Valve to be installed on test rack using suitable gasket.
2. Attach hydraulic line, cycle rod up and down no less than three times.
3. Bring hydraulic pressure to 2000 psi and lock. Observe for one minute, cannot fall below 1960 psi.
4. Install cap to lower housing. (hand tight)
5. Apply test fixture pressure to 35 psi. Must hold for one minute.
6. Liberally apply bubble solution to connection joints and lower housing.
7. Check for bubbles around all threaded and swivel joints.
8. Reduce hydraulic pressure to zero psi, allow rod to lower and poppet to seal, remove cap.
9. Poppet seal must maintain the 35 psi for one minute.
10. Bubble test with solution inside poppet seal.
11. Test complete, remove from fixture and clean.

Troubleshooting and Repair

If the device does not seal properly:

1. Wipe sealing area with clean rag.
2. Ensure that the poppet is fastened tightly to the piston rod.
3. Install new gaskets/O-rings.

If device does not open properly:

1. Bleed hydraulic lines.
2. Check for leaks near the hydraulic line connection.
3. Install new hydraulic seals.

If either problem cannot be corrected, contact a Girard Equipment representative.

Replacement Parts

QTY	PART NUMBER	DESCRIPTION
1	GM30030	3" Orange Duraseal Ring
1	GQ97900	M10 Split Lock Washer
2	GV02000	GVRA Rod O-ring
1	GV05000	GVRA Cylinder Housing O-ring
1	GV08000	GVRA Lower Hydraulic Seal
1	GV08010	GVRA Upper Hydraulic Seal
1	GV09000	GVRA Wiper
1	GV12000	GVRA Poppet O-ring
1	GV13500	Internal Snap Ring SS

Warranty

All goods manufactured by Girard Equipment, Inc. from “genuine” Girard parts are warranted to be free from defects and will be replaced free of charge if failure occurs within 5 years of date of shipment, provided that these parts have been used in accordance with seller’s recommendations. Our liability in any case shall be limited to the sale price of the product and will not extend to any consequential damage.

Contact Information

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