

The Civacon MaxAir Emergency Valve is designed to provide long dependable service life when the emergency valve is opened prior to loading. The correct method of actuating the emergency valve design is to use a pneumatic control valve (CivaControl™ or equivalent equipment) to route air to open the emergency valve. By using this process, the valve will open fully allowing optimum flow with minimal pressure drop to minimize static generation. It also seals product from the air system.

If the emergency valve is not opened with air prior to loading the compartment there is a possibility that a small amount of product can enter the air system in the valve. **This loading procedure is not recommended.**

Inspect the air lines between the controller and the emergency valve to determine if product has entered the air system. If product is detected, we recommend you install a Seal Kit for the air cylinder portion on the emergency valve. It is important that the seals are installed per the instructions in the kit to eliminate product from entering the air system in the future. In addition any product found in the air lines going to the valve must be blown out using compressed air.

WARNING!!

CIVACON products should be used in compliance with the applicable federal, state and local laws and regulations. Product selection should be based on physical specifications and limitations, compatibility with the environment, and the material being handled.

CIVACON MAKES NO WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE.

TECHNICAL ASSISTANCE

If at any time during the installation a question arises that is not covered in this manual or with any other applicable documents feel free to call the Customer Service Department or visit our website at www.civacon.com.

In the U.S., call 1-888-526-5657
In all other countries, call your local agent.



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civacon
AN **opw** FLUID TRANSFER GROUP COMPANY

MAXAIR SEAL REPAIR KIT, CRUDE VALVE INSTRUCTIONS

P/N: 12578PA

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Air Operated Internal Valve For Petroleum Cargo Tanks

Seal Repair Procedure



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REPAIR PROCEDURE

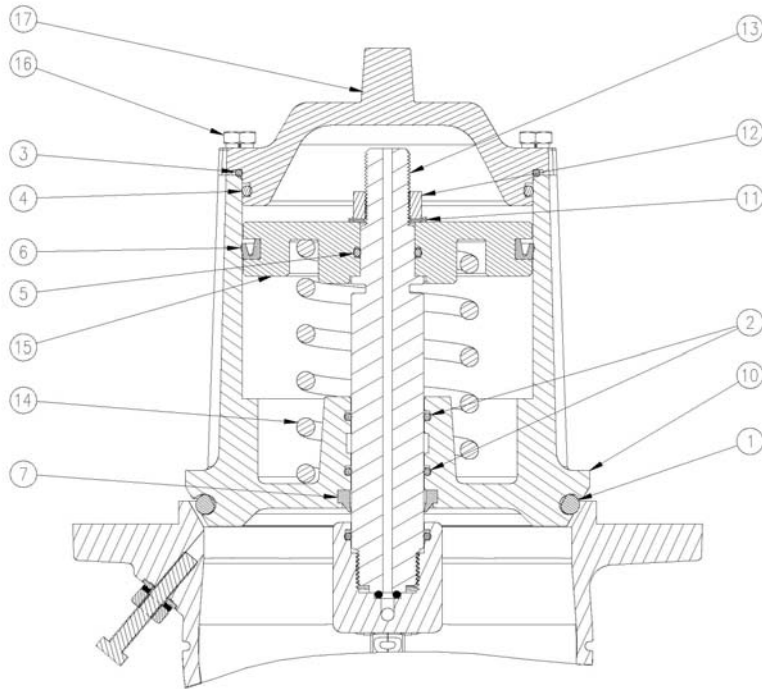


Figure 1 - Air Operated Internal Valve Section View

REPAIR KIT BILL OF MATERIAL

ITEM	PART NUMBER	DESCRIPTION	QTY
1	9456	O-Ring, Viton GF, supplied with 12575VRK Kit	1
2	12299	O-Ring, Viton GFLT	2
3	12301	O-Ring, Viton GF	1
4	12302	O-Ring, Buna	1
5	12303	O-Ring, Buna	1
6	12304	Seal, U-Cup, Polyurethane	1
7	12305	Seal, Wiper, FKM/Viton	1
8	12244	Silicone Compound Lubricant	1

1. Review Figure 1 before disassembling the valve
2. Remove bolts/washers (16). This will allow the end cap (17) to be removed.
3. Remove nut and lock washer (11)(12). This will allow the piston (15), and poppet (10) to be removed from the shaft (13).
4. Remove wiper seal (7) and o-rings (1) & (2) from poppet (10) and replace with new o-rings from kit.
5. Generously apply lubricant (8) to wiper seal (7), o-rings (2), and shaft (13).
6. Reinstall the poppet (10) onto shaft (13) being careful not to cut o-rings.
7. Remove the u-cup seal (6) and o-ring (5) from the piston (15) being careful not to scratch the o-ring grooves. Replace with new seals from kit. Ensure u-cup seal orientation is correct when installing.
8. Generously apply lubricant (8) to o-ring (5), u-cup seal (6) and poppet bore (10). Re-install spring (14), piston (15), and washer/nut (11)(12). Tighten nut (12) until piston (15) is fully seated onto shaft (13).
9. Remove o-rings (3)(4) from end cap (17), being careful not to scratch o-ring grooves, and replace with new seals from kit.
10. Apply lubricant (8) to end cap o-rings (3)(4). Re-install end cap (17) and securely tighten bolts (16).
11. Test valve to verify proper operation. Activate the valve with an air supply (80 psi minimum). Actuate the valve several times to ensure proper operation. With valve open, submerge entire valve in clear water. Wait 20 seconds and check for air bubbles. Air bubbles would indicate a leak and further repair would be required.

ORDERING SPECIFICATIONS

Crude Emergency Valve Seal Repair Kit

12575VRK Seal Repair Kit