

The Civacon 3" 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.



PHONE: (816) 741-6600 • (888) 526-5657 • Fax: (816) 741-1061
4304 Mattox Road • Kansas City, MO 64150 • www.civacon.com

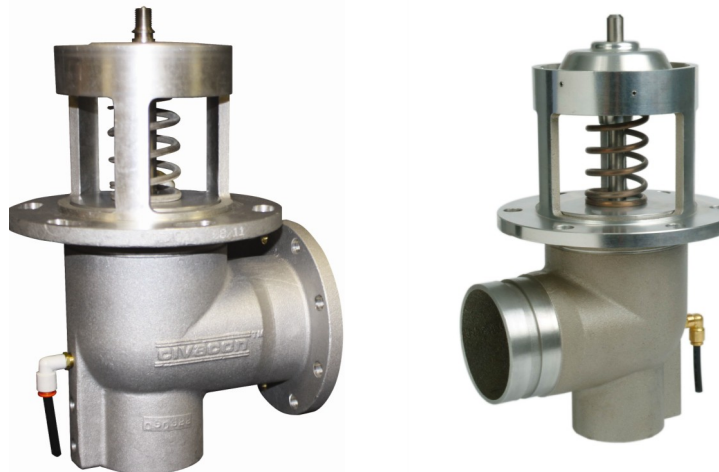


civacon
AN **opw** FLUID TRANSFER GROUP COMPANY

3" Air Operated Emergency Valve Repair Procedure

P/N: 12457PA

Rev.+, Apr., 2012



3" Air Operated Internal Valve For Petroleum Cargo Tanks

Seal Repair Procedure



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REPAIR PROCEDURE

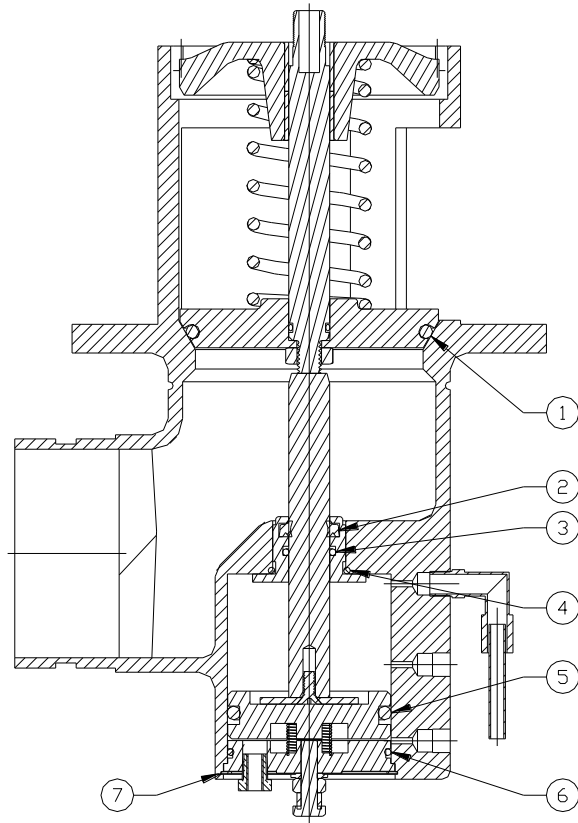


Figure 1 - 3" Emergency Valve Section View

BILL OF MATERIAL

ITEM	PART NUMBER	DESCRIPTION	QTY
1	11278M	O-Ring, Tef-O-Sil, supplied with 12455	1
1	10680M	O-Ring, Viton GF, supplied with 12454	1
2	10238M	Wiper Seal	1
3	10681M	Internal Gland O-Ring	1
4	10700	External Gland O-Ring	1
5	10676M	Fluorosilicone O-Ring	1
6	10720	End Cap O-Ring	1
7	10345	Retaining Ring, SS	1
8	12244	Silicone Lubricant	1

1. Review Figure 1 before disassembling the valve
2. Remove retaining ring (7). This will allow the bottom cap to then be removed.
3. Remove spring, piston, and shaft. Remove gland nut with 1 1/2" socket.
4. Remove wiper seal (2) and o-rings (3) & (4) from inside and outside of gland nut and replace with new o-rings from kit.
5. Apply lubricant (8) to wiper seal (2), internal gland o-ring (3), external gland o-ring (4), and shaft.
6. Reinstall gland nut with 1 1/2" socket, then the shaft.
7. Remove blue fluorosilicone o-ring (5) from piston being careful not to scratch the o-ring groove, and replace with new o-ring from kit.
8. Remove end cap o-ring (6), being careful not to scratch o-ring groove, and replace with new o-ring from kit.
9. Apply lubricant (8) to fluorosilicone o-ring (5), end cap o-ring (6), and bore. Re-install piston, spring, cap and retaining ring (7).
10. Push down on top cap and rotate clockwise until it stops. Slowly release pressure on the cap and remove it from the assembly.
11. Remove spring and poppet. Remove poppet o-ring (1), being careful not to scratch the o-ring groove, and replace with new o-ring from kit.
12. Reinstall poppet into valve along with spring.
13. Reinstall top cap onto valve by compressing cap and turning counter-clockwise until tabs on cap slide into their locking slots
14. 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

3" Emergency Valve Seal Repair Kit

12454 Seal Repair Kit (Viton)

12455 Seal Repair Kit (Tef-O-Sil)