



September 2020

RegO® Field Topics

Chek-Lok® Valves

**Field Topics** are intended to provide useful information to the network of authorized LP-Gas and Anhydrous Ammonia distributors regarding the proper use of RegO® products.

**Warning Bulletins** covering many of the hazards involved are available from RegO for more detailed information. These bulletins can be found in our **L-500, L-102 and NH3-102** catalogs. Neither the Field Topic or the Warning Bulletins are intended to conflict with federal, state, or local ordinances and/or regulations, which should be observed at all times. This information also is not intended to be a substitute for or to supplement any training in the safe handling and use of propane and related equipment, as required by any applicable law. By providing this material, ECI assumes no responsibility for providing any such training. Only individuals properly trained in the safe handling and use of propane and related equipment should be permitted to do so, and by providing this information, ECI does not assume responsibility for providing such training.

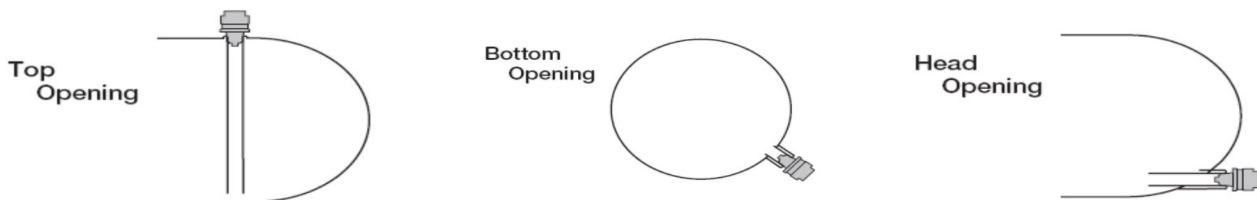
For more information on LP Gas system requirements, refer to Liquefied Petroleum Gas Code (NFPA 58), National Fuel Gas Code (NFPA 54), National Propane Gas Association Safety Handbook, the RegO LP-Gas Serviceman's Manual L-545, RegO catalogs L-500/L-102/NH3-102, ANSI K61.1 Safety Requirements for Storage and Handling of Anhydrous Ammonia, as well as any applicable local codes and ordinances.

### What is a Chek-Lok® Valve?

The Chek-Lok® valve is an actuated liquid withdrawal excess flow valve found in most horizontal LPG gas cylinders. They are designed to provide a convenient means of withdrawing liquid from stationary containers prior to moving the container. The Chek-Lok® permits one transfer shut-off valve with an adapter to be used interchangeably on a number of tanks.

### Where is the Chek-Lok® installed on the container?

Typical mounting for RegO's Chek-lok® valves can be found on the top opening of the container. Mounting on older tanks can also be seen at the bottom or head openings.



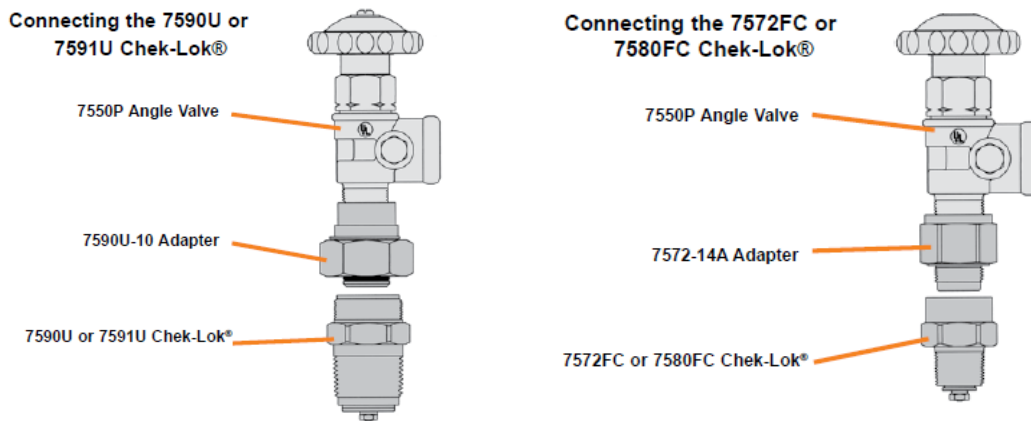


## Can a Chek-Lok® Valve be used for a permanent application?

The RegO 7590U & 7591U are designed for permanent application if the excess flow sizing is adequate. RegO's older style versions 7572FC/7580FC are not designed for permanent applications.

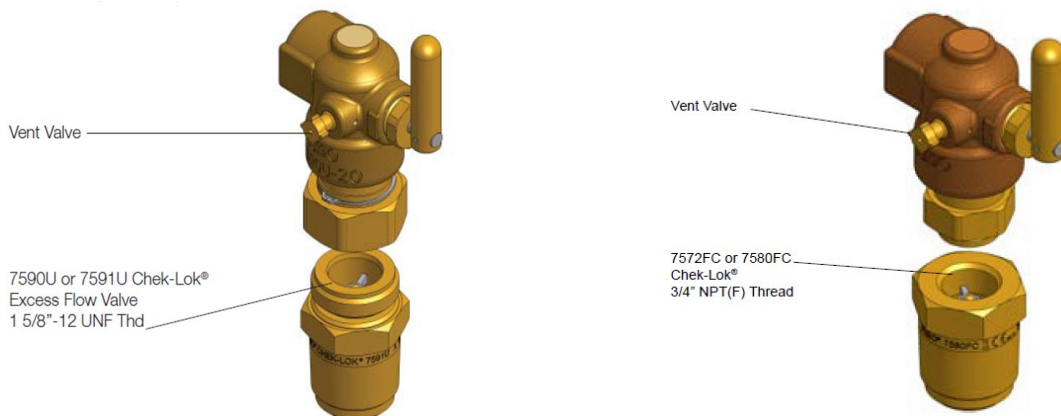
## What special adapter are required to open a Chek-Lok®?

RegO's 7590U/7591U require a 7590U-10 adapter and 7572FC/7580FC require a 7572C-14A or 7572C-15A. A suitable angle valve shall be installed into these adapters. RegO does not recommend the use of other manufacturers' adapters to open these valves and must be used with the correct adapter or unloading adapter.



## What Unloading Adapter are available?

The 7590U-20 unloading adapter is designed for the 7590U/7591U Chek-Lok® valve. The 7580F-20 unloading adapter is designed for the 7572FC/7580FC Chek-Lok® valve. The operating handle opens and closes equalizing stem in the Chek-Lok® valve. Eliminates gas flow through Chek-Lok® valve when installing or removing adapter.

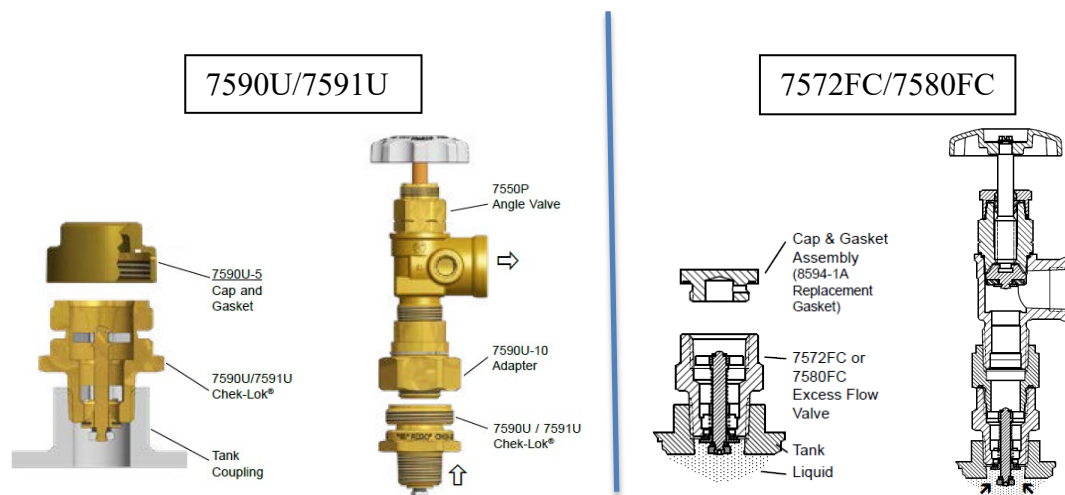




## What steps does it take to open a 7590U/7591U Chek-Lok® Valve?

**IMPORTANT SAFETY WARNING:** For Chek-Lok Valves used on bobtail trucks, be sure operator is properly trained and follows all instructions for opening and closing the Chek-Lok Valve. Debris might accumulate inside the bobtail truck container and may damage the Chek-Lok Valve. Routine cleaning of the bobtail truck container and inspection of the Chek-Lok Valves are therefore important.

**CAUTION:** Wear approved protective gloves and eye protection when working with Chek-Loks®. Do not vent LP-Gas near possible sources of ignition..



1. Loosen the cap/plug to vent any accumulated LP-Gas from the Chek-Lok®. After venting stops, remove the cap/plug. (NOTE: Use a suitable wrench when removing the cap and adapter from the Chek-Lok®. Do not allow the Chek-Lok® to un-thread from the tank during removal. When necessary, use a second wrench to secure the Chek-Lok® in position). If venting does not stop, retighten the cap/plug and use other approved means to withdraw liquid from the container.
2. Before beginning withdrawal, securely connect an RegO® 7550P Angle Valve or suitable shut-off valve to the adapter.
3. Fully open the shut-off valve – the valve’s handwheel must be fully opened before connecting the adapter to a tank.
4. Completely thread the adapter and shut-off valve assembly onto the Chek-Lok® by turning adapter’s coupling nut clockwise until it is tight. Immediately close the shut-off valve. Listen for an audible click to signal that the Chek-Lok® has opened and is actuated for liquid withdrawal.



5. Check the coupling nut and adapter assembly for leaks using a suitable leak detection solution.
6. If the Chek-Lok® fails to open after following this procedure, the pressure downstream of the shut-off valve should be increased to equalize pressure in the Chek-Lok®. It is simple to equalize pressures using vapor from either the vapor return valve or service valve, or from a hose end valve connected to the delivery truck.

### How to Close the Chek-Lok®

**CAUTION: Wear approved protective gloves and eye protection when working with Chek-Loks®. Do not vent LP-Gas near possible sources of ignition.**

1. Tank pressure must be in excess of 35 psig.
2. Close shut-off valve and disconnect the hose or piping.
3. Open shut-off valve fully. Liquid discharging to the atmosphere should cause the excess flow feature of the Chek-Lok® to close, provided tank pressure is 35 psig or more. If, for any reason, the excess flow valve does not close, the shut-off valve must be closed immediately and must not be removed until the system can be evacuated, and the unit repaired.
4. After the excess flow valve closes, remove the adapter and shut-off valve assembly.
5. Check the cap/plug to ensure that the Gasket is installed. Clean the sealing face of Chek-Lok® and reinstall the Cap and Gasket Assembly by applying 300-400 in-lbs torque. Tighten with suitable wrenches to ensure the torque matches the specified values.

**IMPORTANT:** Do not use a standard pipe cap. Only use the designated cap or plug from RegO®.

Should you have any questions or concern, please contact me.

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