

ECII/RegO Products
Operating Instructions For 3170, 3180C
Single-Check Vapor Equalizing Valves
Suitable for use on LP-Gas
Maximum Allowable Pressure 25 bar

Warning: Installation, usage and maintenance of this product must be in compliance with all Engineered Controls International Inc. instructions as well all requirements and provisions of National, and Local standards, codes, regulations, and laws.

Inspection and maintenance on a periodic basis is essential. Installation and maintenance should be performed only by qualified personnel.

Be sure all instructions are read and understood before installation, operation and maintenance. These instructions must be passed on to the end user of the valve.

Caution: Contact or inhalation of liquid propane, anhydrous ammonia, and their vapors can cause serious injury and death! NH₃ and LP-Gas must be released outdoors in air currents that will ensure dispersion to prevent exposure to people and livestock. LP-gas must be kept far enough from open flame or other source if ignition to prevent fire or explosion! LP-Gas is heavier than air and will not disperse or evaporate rapidly if released in still air!

Installation:

These vapor equalizing valves must never be installed directly into container couplings. They must be used with an appropriate excess flow valve.

1. Apply a pipe joint compound suitable for LP-Gas (such as PTFE tape) to the male threads of the valve.
2. Before connecting to a LP Gas storage container or piping, check all taper connections for foreign material. If any is found, remove it.
3. Insert the male fitting of the valve into the female connection of the excess flow valve or downstream piping. Turn clockwise until it is hand tight.
4. With a suitable wrench turn two to three wrenching turns beyond hand tight to create a seal.
5. Follow all local and national codes and standards for pressure testing and leak checking the installation.

Operation: The 3170& 3180C is designed for use with RegO excess flow valves to facilitate loading operations by providing equalization of pressures in the supply and storage containers.

1. Follow your company's established equalizing procedures.
2. Wear eye protection.
3. Wear suitable gloves to prevent freeze burns.
4. Remove protective cap from valve. Before making an ACME connection, ensure the internal gasket is in place and inspect all connections for foreign material. If any is found, remove it.

5. While connecting, make sure the ACME connection spins easily on to the valve threads, do not hammer or force the connector. Hand tighten the hose coupling onto the 3170 & 3180C valve. This will open the vapor equalizing valve.
6. When starting the equalizing process, observe the valve connection. There should be no leak. If a leak develops close the line valve and correct the problem.
7. After the equalizing process is complete, slowly uncouple the hose coupling from the 3170 & 3180C valve. Ensure hose pressure is relieved at the connection prior to uncoupling. Pressure may be bled by using a vent valve or slowly turning the ACME connection ½ to ¾ turn. Uncoupling will close the vapor equalizing valve.
8. Replace protective cap.

Maintenance and Inspection:

Periodically check for:

1. Any signs of corrosion due to water, salt, industrial pollutants, chemicals, and roadway contaminants.
2. Any physical damage which would prevent proper sealing and usage or that may cause product failure under pressure.

Keep all equipment clean, and replace damaged equipment immediately.

Hazards:

- These valves are designed to stop flow in one direction only (out of the container). Do not install backwards. Do not use without an appropriate excess flow valve.
- When disconnecting from a vapor equalizing valve, if the venting of gas does not stop, foreign material may be preventing the vapor equalizing or hose end valve from closing completely. Do not completely disconnect from a vapor equalizing valve before venting is complete.
- ACME connections can wear over time and may prevent a secure connection. Inspect the threads and replace valves that have worn or damaged threads.

General Warning:

All ECII products are mechanical devices that will eventually become in operative due to wear, contaminants, corrosion, and aging components. Periodic inspection and maintenance are essential. The safe useful life of this product can vary greatly depending on the environment it is exposed to, and the inspection/maintenance program that is used. For more information refer to RegO Products L-500 catalog or www.regoproducts.com.