

ECII/RegO Products Operating Instructions for use of the RS3136 & RS3145 Relief Valves with CD36 & CD45 Check Device. 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 vapours 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 of ignition to prevent fire or explosion! LP-Gas is heavier than air and will not disperse or evaporate rapidly if released in still air!

Note: There is no reduction in the marked flow capacity on any of the RegO Products RS Series relief valves when installed on a RegO Products CD Series Check device.

Purpose

This bulletin applies to pressure relief valves installed on stationary, portable and transportable containers and piping systems utilized with these containers. This bulletin is not intended to be an exhaustive treatment of this subject and does not cover all safety practices that should be followed in the installation and maintenance of LP-Gas systems. Each LP-Gas employee should be provided with proper training on the subject.

A simple warning is:

Inspect pressure relief valves regularly. Replace unsafe or suspect valves immediately. Use common sense.

Install Properly

Consult any applicable regulations governing the application and use of pressure relief valves, for example EN 14129 or EN 14071. Make sure you are thoroughly trained before you attempt any valve installation, inspection or maintenance.

Proper installation is essential to the safe operation of pressure relief valves. When installing ECII®/RegO® pressure relief valves, consult warning #8545-500 which accompanies each valve.

Operation: The RS3136 and RS3145 series relief valves are designed to permit removal of the pressure relief valve for servicing or replacement without evacuating the container.

1. To remove from the check device; use a suitable wrench on both the check device and pressure relief valve when attempting to remove the relief valve from the check device.
2. When removing the RS3136 and RS3145 from the CD36 or CD45 check device, the tell tale hole on the relief valve body is visible with two turns of threads showing and product flow still venting through the hole. It will be necessary to take it another turn in order to have the check device start to close. **If the flow does not audibly reduce do not remove the valve from the check device, report the problem to your supervisor.**
3. **Never leave a check device with out a relief valve on any container holding LP-Gas.**
4. To install a RS 3136 or RS3145 into the CD36 or CD45 check device remove and replace the boned seal with a new one (supplied with the new relief valve).
5. Insert the RS3136 or RS3146 male connection into the check device and turn clockwise at least one turn.
6. **With suitable wrenches holding both the wrench flats on the check device and relief valve turn clockwise until resulting torque is reached:**

Check Device	Relief Valve	Torque Nm
CD 36	RS3136	40
CD45	RS3145	50

7. Check all connections for leaks with a suitable leak detecting solution. If any are found, correct the problem.
8. Once installed according to the above instructions, the CD check device and RS3136 & RS3145 requires no adjustment for proper operation.

Pipeways and deflectors may be required by local codes, laws and regulations depending on the installation. Use only ECII® / RegO® adapters or ECII® / RegO® relief valves. Adapters not designed specifically for piping away ECII® / RegO® relief valves, such as those with 90° turns or reduced internal diameters, will decrease flow dramatically. These should never be used

as they can cause the relief valve to chatter and eventually destroy itself.

The addition of deflectors, pipeaway adapters and piping will restrict the flow. To properly protect any container, the total system flow must be sufficient to relieve pressure at the pressure setting of the relief valve in accordance with all applicable codes.

Container Pressure Relief Valves

LP-gas relief valves are intended to open only under the excessive pressure conditions indicated below. The container pressure will get high enough to open relief valves under the following conditions:

1. Filling containers not purged of air
2. Overfilled container exposed to heat which includes radiant heat (sun).
3. Use of an incorrect product such as propane in a container with relief valve set for butane pressures (Low set pressure for service)
4. All containers exposed to extreme heat (fire).
5. Excessive pressures created during filling

CAUTION: Never plug the outlet of a pressure relief valve. Any device used to stop the flow of a properly operating pressure relief valve that is venting an overfilled or over pressurized container - raises serious safety concerns!

Note When replacing pressure relief valves, make sure that the setting and capacity are correct for the container or system. Check the stamping or nameplate on the container and then determine the proper pressure relief valve from RegO® products LP-gas catalogue. Copies are available from RegO GmbH, Germany, Engineered Controls International, Inc. or your Authorized *RegO® Products* Distributor.

Inspect Regularly

A pressure relief valve discharges when some extraordinary circumstance causes an over pressure condition in the container. If a pressure relief valve is known to have discharged, the relief valve, as well as the entire system, should be immediately and thoroughly inspected to determine the reason for the discharge. In the case of discharge due to fire, the valve should be removed from service and replaced.

Relief valves should be inspected each time the container is filled but no less than once a year. If there is any doubt about the condition of the valve, it must be replaced.

To Properly Inspect Pressure Relief Valves refer to RegO® products LP-gas catalogue.

WARNING: Under normal conditions, the useful safe service life of a pressure relief valve is 10 years from the original date of manufacture. However, the safe useful life of the valve may be shortened and replacement required in less than 10 years depending on the environment in which the valve lives. Inspection and maintenance of pressure relief valves is very important. Failure to properly inspect and maintain pressure relief valves could result in personal injuries or property damage. For more information refer to RegO® products LP-gas catalogue.

Repair

RegO® pressure relief valves are not designed to be repaired or reconditioned. Spare components for pressure relief valves are not available for sale. However, some companies in Europe are authorized to recondition or remanufacture some types of RegO pressure relief valves. For details of companies providing this service, contact RegO GmbH, Germany or your Authorized *RegO® Products* Distributor.

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