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CLEAN ENERGY SOLUTIONS

100 RegO Drive, Elon NC 27244
www.regoproducts.com

June 2023

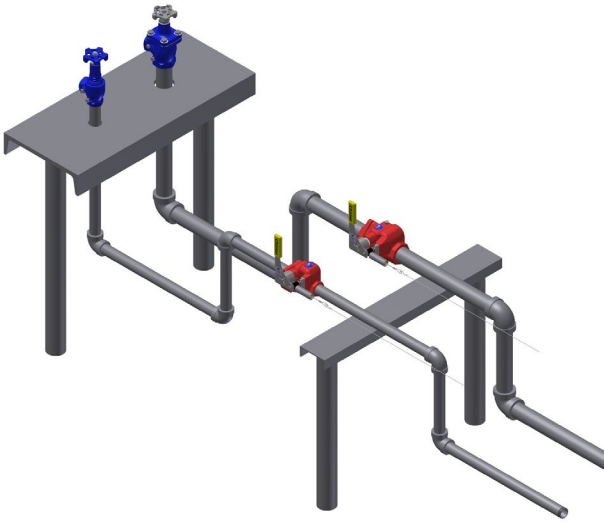
RegO® Field Topics

ESV Suggested Maintenance and Inspection

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 nor 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.

ESV Suggested Maintenance and Inspection



An ESV system is designed to prevent major spills from the storage tank piping when an emergency (i.e. pullaway, etc.) occurs at the transfer point. Proper function depends, not only on the ESV, but also on the control system which actuates the valve. RegO® recommends that a comprehensive inspection and preventive maintenance program be followed to ensure the readiness of your entire ESV system at all times.

Remember, the ESV system must conform to NFPA #58 (See NFPA 58-2020 sections 5.14.2 & 6.14), which calls for:

A. Manual shutdown of the valve.
B. Thermal shutdown at the valve. If the nearest end of the hose is more than 5 feet from the ESV, a remote thermal shutdown device is required that is no more than 5 feet from the hose end.
C. Remote shutdown.

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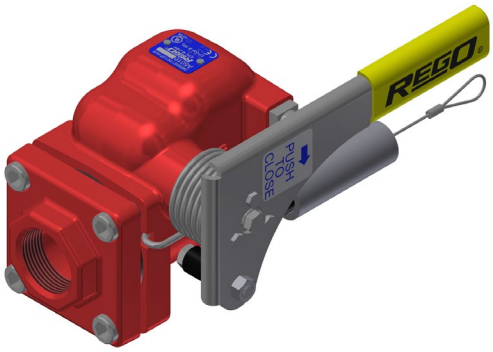
(See NFPA 58-2020 sections 5.14.2 & 6.14)



Inspection and Maintenance

WARNING: The ESV and their control systems are mechanical devices and must be inspected, maintained and operated at regular intervals if they are to ensure protection of your facility.

Make all adjustments and repairs to the ESV or control system immediately upon discovery of any performance problem.

This is only a suggested maintenance schedule for ESVs. These time periods are based on ideal conditions. However, the actual time periods may need to be reduced depending on the environment in which the valve is placed. Inspection and maintenance are very important. Failure to properly inspect and maintain ESVs could result in personal injury and property damage.

Follow this routine check list annually. Since each ESV system is unique, the check lists are not all-inclusive. Therefore, add your individual installation requirements as needed.

1. With the ESV open, pull cable release to make sure the valve handle moves to the closed position (parallel to the piping). If pneumatic actuators are installed, release all air pressure to close the valve.

CAUTION: Lever is spring loaded. Keep hands & fingers away from lever when closing.

2. Check all remote release cables and pneumatic tubing and connections. Be certain that all cables are properly installed and operating to allow operation from all remote locations. Check pneumatic tubing for kinks or damage and check connections for leaks using a noncorrosive leak detection solution. Correct any leaks immediately.

3. Check that all ESV signs are visible and legible.

Replacement Signage	
Emergency Shutoff Label	7605AP-83L
Emergency Shutoff Label & Bracket	7605AP-81
Charging Valve Label	7605AP-82L
Charging Valve Label & Bracket	7605AP-82

4. Inspect the entire system for damage, wear, or corrosion, and repair or replace components as needed. If corrosion is present, remove the corrosion, clean, and repaint. Avoid painting over data plate that is secured to the valve body.

Pneumatic Control Parts	
Charging Valve	7605AP-12
Service/Reserve Indicator	6016PN-3
Emergency Shut Down Valve	7605AP-10
Emergency Shut Down Valve with Bracket & label Assy	6016APN-8A
3/8" F. NPT Thermal Fuse Plug	A3209TF
1/4" F. NPT Thermal Fuse Plug	A3209TF25
100' Roll of pneumatic tubing	7605A-BT
¼" Tubing Tee w/ Nuts	7605AP-16
¼" Tubing Union w/ Nuts	7605AP-17
1/8" M. NPT x ¼" Tubing, Straight Connector	7605AP-15
1/8" F. NPT Brass Tee	7605AP-13
1/8" F. NPT X ¼" M. NPT Brass Bushing	7605AP-19
1/8" M. NPT Brass Close Nipple	7605AP-14

Should you have any questions or concerns, then please contact me.

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