

ECII/RegO Products Operating Instructions for A2141A10 & A2141A16 Pull away Couplings for Liquid or Vapor Service.

Suitable for use on LP-Gas & NH3
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 as requirements and provisions of National, Local Standards, Codes, Regulations and Laws.

Inspection and maintenance on a periodic basis is essential and should be performed by qualified personnel. 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 along to the end user of the valve.

CAUTION: Contact or inhalation of liquid propane, ammonia and their vapors can cause serious injury or death! **NH3** and **LP-Gas** must be released outdoors in air currents that will insure dispersion to prevent exposure to people and livestock. LP-Gas must be kept far enough from any 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. Valves should not be installed more than 3 feet above the ground.

Installation:

1. Mount valve assembly with lanyard positioned upstream. See illustrations. Use a 1/2" hex head machine bolt or a 5/16" U-bolt with suitable washers and nuts, or a 1/8" (7 x 19 strand) stainless steel flexible aircraft cable having a tensile strength of approximately 1000 lbs with suitable cable clamps.

Note: Valve assembly must be able to swivel to assure a straight pull in the event of a pull-away.

2. Use a short length of hose between the rigid piping and the inlet of the pull-away valve. Approximately 12 to 24 inches in hose length should provide sufficient flexibility, depending upon the installation.

3. Attach the discharge hose to the downstream end of the pull-away valve assembly.

4. After the installation is completed and before the system is charged with LP-Gas or NH3, a pull-away test should be conducted to assure proper operation of the pull-away valve. **NOTE:** It is recommended that a convenient means be provided to safely remove the pressure from the line upstream of the valve assembly enabling reassembly of the pull-away valve after a pull away.

WARNING: Always wear protective eye wear and gloves when disconnecting or reconnecting the pull-away valve.

Reconnection

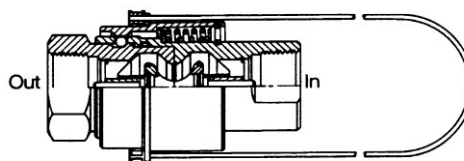
1. Before reconnection, safely insure that all internal pressure has been removed upstream and downstream of the pull-away valve assembly.
2. Apply a light film of ECII #5555GP grease or a good grade of rust preventative machine oil to the male end of the coupling.

3. To reconnect, simply push the male coupling section into the female coupling section until the retaining balls snap into the groove.

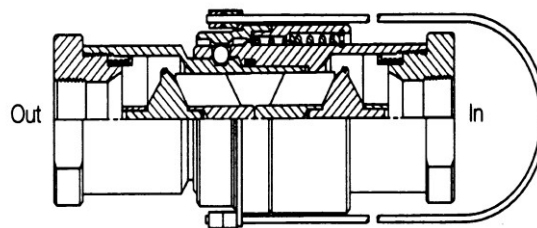
4. Pressurize the system and test for leaks at connection points with a high quality leak detection solution.

Part Number	Inlet & Outlet F. NPT	LP-Gas Liquid Flow Capacity at Various Differential Pressures (GPM) •				Disconnect Force	
		5PSIG	10 PSIG	25 PSIG	50 PSIG	Min.	Max.
A2141A10	1-1/4"	52	75	120	170	60 lbs.	350 lbs
A2141A16	2"	250	350	550	750	100 lbs.	350 lbs

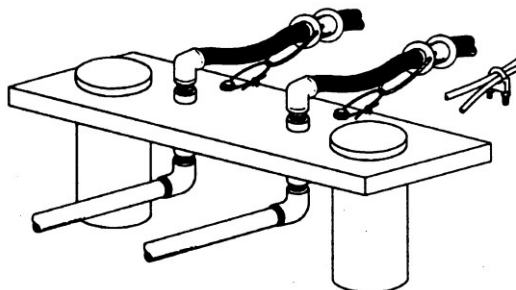
A2141A10



A2141A16



Typical Valve Installation



Operation: The A2141A10 & A16 are designed to provide pull away protection for LP-Gas and NH₃ transfer operations. These include transport and delivery truck loading and unloading, engine fuel, and container filling and miscellaneous cylinder filling operations. When fastened to the inlet end of the discharge hose, the valve is designed to prevent gas escape from both upstream and downstream lines in the event of a pull away. An excessive tension load will cause the pull-away to separate and allow the two internal back pressure checks to close-assuming the pull away has been properly maintained and installed as set forth in these instructions. Only a few cubic centimeters of product will escape at the instant of separation.

NOTE: The A214A10 and A2141A16 Series Pull-Away should not be installed more than 3 feet above ground.

Maintenance and Inspection: It is recommended that pull away valves be maintained and safely tested periodically to confirm that they will separate properly in the event of a pull-away. Lubrication on a 6 month is essential to the pull-away operation. Dry nitrogen or other inert gas is suggested as a source of pressure for pull-away tests. Underwriters Laboratories requires the male end of the coupling be lubricated at least every six months. If the pull-away valve is going to be stored for a period of time, such as in seasonal applications, it is recommended that it be sprayed with a good grade of rust preventative machine oil or covered to protect from moisture. A test should be conducted to confirm proper performance, including a simulated pull-away, prior to putting a pull-away valve back in service

Hazards:

- These couplings are designed to stop flow after separation, if the coupling is not properly maintained damage to the hose and an uncontrolled discharge of LP-Gas or NH₃ may occur.
- Never uncouple the devices until all pressure has been bled from the lines.
- Do not attempt to reconnect coupling while the hose is under pressure.

General Warning:

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

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