

MEC ME860S/ME861S Series

Pull-Away Valve Installation Instructions



ME861S
Lanyard Style



ME860S
Bracket Style

INTRODUCTION

SCOPE OF MANUAL

This manual covers instructions for the type ME860S/ME861S series pull-away valves. This series of valves provide pull-away protection for LP-Gas and NH₃ transfer operations. These include transport and delivery truck loading and unloading, engine fuel container filling and miscellaneous cylinder filling operations. When installed 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 causes the pull-away valve to separate and allow the two internal back pressure checks to close (assuming the pull-away valve 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.

DESCRIPTION

The ME860S/ME861S series pull-away valves range in size from 3/4", 1", 1-1/4" & 2" FNPT connections. Materials of construction consist primarily of corrosion resistant plated steel with nitrile seals.

Available Sizes and Styles

- ME860S-6 — 3/4" FNPT - Bracket Style
- ME860S-8 — 1" FNPT - Bracket Style
- ME860S-10 — 1 1/4" FNPT - Bracket Style
- ME861S-6 — 3/4" FNPT - Lanyard Style
- ME861S-8 — 1" FNPT - Lanyard Style
- ME861S-10 — 1 1/4" FNPT - Lanyard Style
- ME861S-16 — 2" FNPT - Lanyard Style

WARNING

Failure to follow these instructions or to properly install and maintain this equipment could result in (a) personal injury or death and (b) an explosion and/or fire causing property damage.

CAUTION: Contact or inhalation of liquid propane, anhydrous ammonia or their vapors can cause serious injury or death! Disperse propane or ammonia only in accordance with local regulations. To prevent exposure of LP-Gas or NH₃ to people and livestock when allowed by regulations, release these chemicals outdoors in air currents that will ensure dispersion. Keep LP-Gas far enough from any open flame or other source of ignition to prevent fire or explosion! LP-Gas is heavier than air and may not disperse or evaporate quickly if released in still air.

Install, operate and maintain Marshall Excelsior Co. equipment in accordance with federal, state, and local codes and these instructions. The installation in most states must also comply with NFPA #58 LP-Gas Code, ANSI K61.1 and DOT standards.

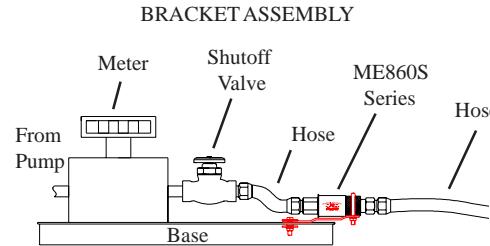
Only personnel trained in the proper procedures, codes, standards and regulations of the Anhydrous Ammonia and LP-Gas industries should install and service this equipment.

INSTALLATION

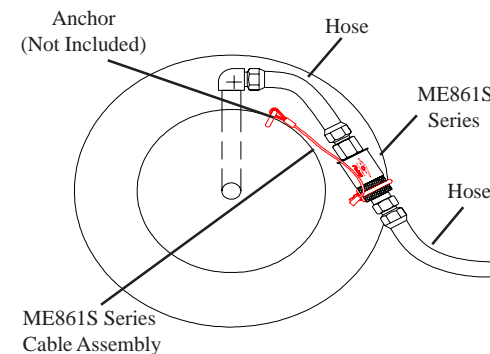
Warning

Release all system pressure before removing or installing any hose assembly valve. Failure to do so could result in personal injury. Install any ME860S/ME861S series valve no more than six feet (6') above the ground. Use proper safety equipment at all times. Completely purge the system of all products (such as propane or anhydrous ammonia).

Mount the pull-away valve assembly with the lanyard or bracket positioned upstream (towards the rigid piping section - see illustrations). Confirm the valve assembly swivels to ensure a straight pull in the event of a pull-away.



LANYARD (HOSE REEL) ASSEMBLY



Use a short length of hose between the rigid piping and the inlet of the pull-away valve. Confirm the short length of hose is long enough to allow the pull-away valve to bear the brunt of any excessive tension load in the event of a pull-away.

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

After completing the installation and before charging the system with LP-Gas or NH₃, conduct a pull-away test to ensure proper operation of the installation.

RECONNECTION

Ensure removal of all internal pressure both upstream and downstream of the pull-away valve assembly.

Apply a light film of rust preventative machine oil to the male end of the pull-away coupling.

Push the male coupling section into the female coupling section until the retaining balls snap into the groove.

Check for system leaks at connection points by applying Marshall Excelsior Co. "Leak Detector" to the joints while the assembly is under pressure.

CAUTION — Do not use the hose assembly/pull-away valve assembly if any joint continues to leak under pressure.

MAINTENANCE

Marshall Excelsior Co. recommends a monthly inspection of the pull-away valve under normal service conditions.

Apply a light film of rust preventative machine oil to the male end of the pull-away coupling each month. Safely test the system with a simulated pull-away to confirm the unit properly separates.

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