

# INSTALLATION AND OPERATION INSTRUCTIONS FOR FOR: ME671D, ME671DIBC, AND ME672D LPG / NH3 WITHDRAWAL VALVE

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## SCOPE

This system provides a safe and economical way to evacuate liquid from a tank during an emergency or container relocation. Installing a Liquid Withdrawal Tank Valve directly into a tank, allows you to have only one Liquid Transfer Shutoff Valve attached to a Liquid Withdrawal Adapter on every delivery and service truck.

## NOTE

Always use an adapter between the liquid transfer valve and the liquid withdrawal valve. Do not use transfer valve adapter for full time service. Extreme care must be used whenever liquid transfer of LP-Gas is in progress. Only persons trained in the proper method of transfer should attempt this type of operation. Reference NFPA #58 for additional information.

## !WARNING!

Contact with, or inhalation of liquid propane, anhydrous ammonia and their vapors can cause serious injury and death. LPG must be released outdoors in air currents that will ensure dispersion to prevent exposure to people and livestock and in accordance with local regulations. LPG must be kept far enough from open flame or other sources of ignition to prevent fire or explosion! LPG, and NH3 vapors are heavier than air and will not disperse or evaporate rapidly if released in still air.

An abundant supply of clean water must be readily available and easily accessible as a means of providing IMMEDIATE First Aid treatment for exposure to anhydrous ammonia.

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.



**WARNING:** These products contain a chemical known to the state of California to cause cancer and birth defects or reproductive harm

## !CAUTION!

- Always wear suitable eye protection, gloves and protective clothing when operating or servicing LPG and NH3 equipment.
- Check seals, seats and Acme threads for wear and damage before use. Repair or replace all defective parts immediately.
- Always completely relieve system or line pressure prior to servicing equipment and plumbing.
- Use a suitable sealant on tapered pipe joints and always pressure test for leaks prior to returning to service.

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- Always replace protective dust caps after use.
- To prevent the accidental opening of any valve, never carry or grasp a valve by its hand wheel or handle.
- To prevent accidental discharge, introduction of contaminants or premature wear never intentionally drag or drop a hose end valve.

Regular inspection and maintenance is essential for continued safe operation.

## FEATURES

MEC Multipurpose Withdrawal Valves						
Part No.	Inlet (MNPT)	Withdrawal (FNPT)	Approximate Excess Flow Closing Flow Liquid GPM/LPG*	Back Check	Accessories	
					Hydrostatic Relief	Vent Valve
ME671DIBC-6	1-1/4"	3/4"	50	No	N/A	MEJ400**
					N/A	MEJ402S
ME671DIBC-8***	1-1/4"	1"	58	No	N/A	MEJ400**
					N/A	MEJ402S
ME671D-6	1-1/4"	3/4"	50	No	MEH225**	MEJ400**
					MEH225SS	MEJ402S
ME671D-8***	1-1/4"	1"	58	No	MEH225**	MEJ400**
					MEH225SS	MEJ402S
ME672D	1-1/4"	1"	78	No	MEH225**	MEJ400**
					MEH225SS	MEJ402S

\* For NH<sub>3</sub> Flow Rates Multiply by .90

\*\* Brass accessories cannot be used for NH<sub>3</sub> service

\*\*\* Available for 45 GPM NH<sub>3</sub> closing flow - e.i. ME671D-8/45



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### NOTE

The ME671DIBC is equipped with an integrated back check (IBC) feature built into the lower portion of the seat disc assembly. This feature allows liquid pressure built upstream of the shut-off disc assembly to automatically be relieved back to the container when line pressures exceed 10-25PSI over container pressure. The (IBC) feature eliminates the need for hydrostatic relief valves to protect upstream piping or lines as well as greatly reducing product emissions and overall system safety.

### Installation

1. Check hose end valve and withdrawal valves for foreign materials and, if present, remove with extreme care. If foreign material cannot be safely removed, do not proceed with withdrawal and replace valve.
2. Apply a pipe joint compound suitable for LP-Gas (such as PTFE tape) to the external threads of the valve.
3. Insert the valve into the container. Hand tighten.
4. With a suitable wrench, turn 1 -2 wrenching turns beyond hand tight to create a seal.
5. Insert the male hose fittings or pipe into the female connections of the valve. Turn until it is hand tight.
6. With a suitable wrench turn 1 - 2 wrenching turns beyond hand tight to create a seal.
7. Follow all local and national codes and standards for pressure testing and leak checking the installation.

### Operation

The ME671/ME672 Series withdrawal valves are designed especially for use as a high capacity liquid withdrawal valve on LP-Gas and anhydrous ammonia containers.

1. Follow your company's established withdrawal procedures.
2. Wear eye protection.
3. Wear suitable gloves to prevent freeze burns.
4. Connect withdrawal piping to outlet of valve.
5. Ensure all threads engage smoothly and easily. Do not hammer or force the valve.
6. Use Marshall Excelsior Leak Detector to check for leaks between each connection.
7. Turn handle counter clockwise to open valve to start product withdrawal

### Closing Liquid Withdrawal Tank Valve:

1. Close the Shutoff Valve Assembly and disconnect the hose or piping. Turn valve handle clockwise to close valve.
2. Slowly open the Shutoff Valve to release any LP-Gas/NH<sub>3</sub> in the valve. If the tank pressure exceeds 35psig the LP-

Gas/NH<sub>3</sub> release to the air will cause the excess flow feature to close on the Tank Valve. If the Tank Valve does not completely shut, close the Shutoff Valve immediately.

3. After the Tank Valve's excess flow feature has closed remove the Shutoff Valve Assembly. **When disconnecting the assembly make sure the tank Valve is not unthreading from the tank. Use two wrenches, if necessary, to secure the valve to the tank.** NOTE: A small amount of bypass may occur through the excess flow check. Use caution when removing the Shutoff Valve Assembly.

### 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.
3. Leaks in the valve bonnet area, body, and end connections of the valve.

**Keep all equipment clean, and replace damaged equipment immediately.**

### !HAZARDS!

- These valves are designed to stop flow in either direction. The stem packing can only be isolated when being used as a container shut-off valve.
- If the valve must be uncoupled, ensure all pressure is bled prior to uncoupling.
- This valve is equipped with an integral excess flow valve. When in use, the valve must be completely open in order for the excess flow feature to function properly.

### !GENERAL WARNING!

**Marshall Excelsior products are mechanical devices that are subject to wear, contaminants, corrosion, and aging of components made of materials such as rubber and metal. Over time these devices will eventually become inoperative. The safe service life of these products will reflect the environment and conditions of use that they are subjected to. Regular inspection and maintenance is essential. Marshall Excelsior products have a long record of quality and service, so LP-Gas dealers may forget hazards that can arise from using aging devices that have outlived their safe service life.**

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