

MEC™ ME870 & ME872 Series Backcheck Valves

Installation Instructions



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 LP-Gas and Anhydrous Ammonia industries should install and service this equipment.

WARNING

Release all system pressure prior to installation of valve. Failure to do so could result in personal injury. Use proper safety equipment at all times. Completely purge the system of all LP-Gas or NH₃.

Marshall Excelsior Co.

1506 George Brown Drive Marshall, MI 49068
Phone (269) 789-6700 Fax (269) 781-8340

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INTRODUCTION

SCOPE OF INSTRUCTIONS

These instructions cover ME870 and ME872 series back check valves. Marshall Excelsior High Flow Back Check Valves provide back flow protection to container openings or liquid lines where flow is intended in one direction only. The valve is mechanically held closed until pressure activates the valve when flow is directed into piping or containers causing the back check to open. When flow stops or reverses, the check returns to the closed position. All Marshall Excelsior High Flow Back Check Valves are supplied with o-ring soft seats, which can be removed prior to installation for metal to metal seating.

NOTE: LEAVING THE O-RING SOFT SEAT INSTALLED ON THE VALVE, WILL PROVIDE A POSITIVE SEAL REQUIRING A MINIMUM OF 15 PSI PRESSURE DIFFERENTIAL BETWEEN THE TRANSFER LINE AND CONTAINER TO UNSEAT THE VALVE AND ALLOW IT TO FULLY OPEN.

INSTALLATION

1. Apply a suitable thread sealant compound, such as Loctite 565PST, to Male and Female NPT threads of the backcheck valve.
2. Install into system following the directional arrow stamped on the valve body, considering the flow direction of the system piping the backcheck is being installed into.
3. Tighten connections by placing a suitable wrench onto the HEX wrench flats provided.
4. Pressurize the system after all plumbing is complete to a pressure of at least 150 PSI and check all joints for leakage using a suitable leak detector solution such as "Marshall Excelsior Leak Detector".