



MES-PVE2030 AND MES-PVE2035 MULTI-PORT VALVE INSTRUCTION MANUAL

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!WARNING!

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

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 standards 58 and 59.

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

!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.

!CAUTION!

Contact or inhalation of liquid propane and its vapors can cause serious injury or death. 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.

SCOPE OF THE MANUAL

This manual covers instructions for maintenance of the MES-PVE2030 and MES-PVE2035 series multiport service valves.

INTRODUCTION

The MES-PVE2030 and MES-PVE2035 series of service valves allows for the filling and withdrawal of LP-Gas for a variety of service tanks. Each valve in the series features a POL outlet connection, an ACME inlet connection, and a relief valve to protect the tank from excess pressure. The valves also feature a splash tube that prevents large quantities of product from escaping during turbulent fill.

BONNET AND VALVE INSPECTION

Before evacuating the tank, make sure the bonnet assembly is in good working order. There must be at least 35 psig of cylinder pressure to perform this test.

1. Plug the valve outlet with a POL plug. Open the bonnet halfway and thoroughly check the bonnet nut and stem for leaks using a MEC leak-test solution.
2. Turn the handwheel clockwise until the bonnet just bottoms on the seat. Tighten the handwheel approximately 1/8 of a turn further. Carefully remove the outlet plug. A small release of LP gas may occur as the plug is loosened.
3. Thoroughly check the outlet for leaks using a leak-test solution. Remove any excess liquid when complete.

If any leak is found during the above inspections, the bonnet assembly must be replaced.

NOTE: For bonnet replacement, see Form #MES-R-3329

SERVICE VALVE INSPECTION AND MAINTENANCE

1. Remove all traces of LP gas from the cylinder per the procedures specified in National Fire Protection Association Pamphlet #58.
2. Clean the valve with clean compressed air so dirt does not enter the valve's interior.
3. Inspect the vent opening on the side of the valve. If the orifice sealing surface is corroded, clean it with a toothbrush and isopropyl alcohol. If the orifice sealing surface is gouged, dented, pitted, or scratched, replace the entire valve.
4. Inspect the safety relief device. If its openings are clogged with foreign matter or if it shows any sign of tampering or is dented, bent, or damaged in any way, replace the entire valve. Never attempt to repair or clean a safety relief device.
5. Inspect the ACME cap. If it is cracked or broken, replace with a new cap.
6. Inspect the ACME connector and gasket. If the connector is cracked or broken, replace with a new connector. If the gasket is damaged or missing, replace with a new gasket.

NOTE: For replacement kits, see MES-2030-100-KIT and MES-2035-100-KIT.

SERVICE VALVE TESTING

1. Pressurize the cylinder with LP gas at 50 to 150 psig. Using the commercial leak-test solution, check for leaks where the ACME connector screws into the valve body.
2. Keep your body away from the valve inlet. Carefully place two or three drops of commercial leak-test solution around the poppet seat and inspect for leaks. When complete, use a clean cloth or paper towel to remove the excess liquid.
3. If any leaks are found, evacuate the tank according to NFPA Pamphlet #58 and NPGA Installation Service Guide Book #4003. Remove and destroy the entire valve so it cannot be reused. Install a new valve.
4. If no leaks were found, the valve may now be placed in service. Install the ACME cap and tighten.

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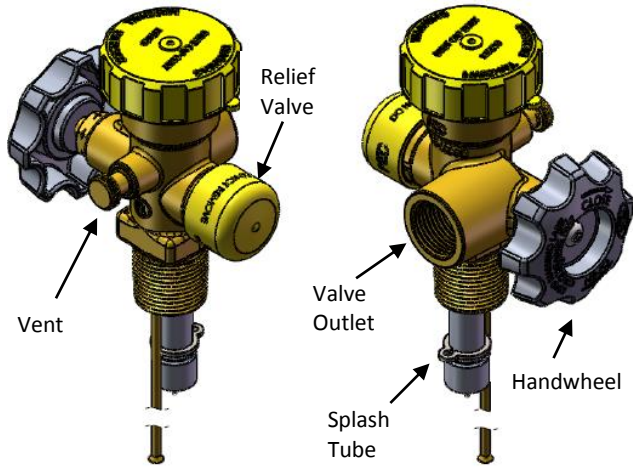
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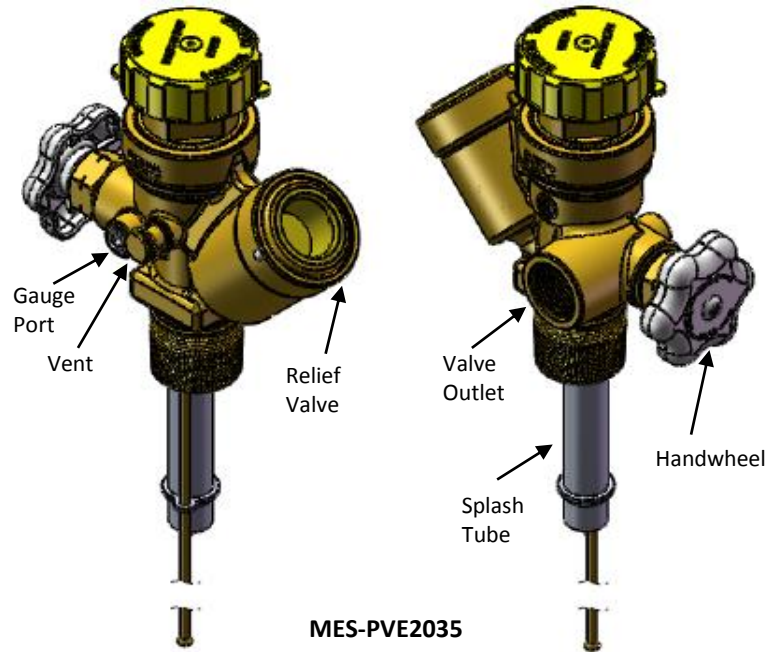
SERVICE VALVE FEATURES

NOTE: See product for pressure ratings.

Series	Tank Connection	ACME Size	Gauge Port
MES-PVE2030	3/4" NGT	1-3/4"	No
MES-PVE2035	1" NGT	1-3/4"	Yes



MES-PVE2030



MES-PVE2035

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