



LPG & NH₃ Equipment

MEP980PN-100 PNEUMATIC REMOTE CONTROL KIT

Installation Instructions

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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 54, 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.



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

PNEUMATIC SYSTEM CONSIDERATIONS

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 54, 58 and 59.

Before assembling the MEP980PN-100 Pneumatic Remote Control Kit, proper consideration must be given to the location of the various elements which make up the pneumatic system. Among the factors to consider:

- A. The pneumatic or rotary actuators must be supplied with 25 psi minimum to 60 psi maximum nitrogen or compressed air for proper operation.
- B. Dry inert gases are preferred for maximum safety and reliability.

*If using LP-Gas Vapor, an excess flow device at the source of LPG vapor is required for safety and compliance to NFPA 54, 58, 59 and state and local codes.

Caution: LP vapor that has condensed into liquid may cause excessive pressure upon re-vaporization.

- C. Determine the site of the compressed gas cylinders. The pressure supply should be properly protected from rain, sleet or snow.
- D. Place the assembled charging valve as close to the pressure supply as possible.
- E. Determine the most strategic location for the remote shut-down valve, such as the nearest exit.

- F. Provide rigid mounting for the charging valve and remote operating valve.
- G. Determine the best path for the pressure line. Pressure line should be easily accessible from any direction.
- H. Determine the length of plastic tubing required. Kit provides 100 feet, however, additional 100ft lengths are available.

INSTALLATION

Note: Use pipe sealing compound on all NPT threaded joints.

Caution: Be sure all joint connections are properly sealed to assure a leak-free system.

Charging Valve Bracket Installation

1. Permanently mount Charging Valve Bracket assembly to pipe stand, wall or pipe run at necessary location using hardware provided (See Figure 1).

Emergency Shutdown Valve Bracket Installation

2. Permanently mount Emergency Shutoff Valve Bracket assembly to pipe stand, wall or pipe run at necessary location using hardware provided (See Figure 1).
3. Connect the black plastic tubing from the Charging Valve "Outlet" to the "Inlet" of the Emergency Shutdown Valve using Tubing Tees, connectors, and unions as necessary, see figure 1 for example.

Pneumatic Remote Control System Installation

4. **(MEGR-11301F) Regulator Outlet:** Thread a 1/8" x 1/4" Bushing into regulator outlet. Thread tubing Connector into bushing. Connect the tubing to the Tubing Connector on one end and the Charging Valve inlet at the other end.
5. Connect all system valves using Tubing, Tees, connectors, and unions as necessary, see figure 1 for example.

System Test

6. Adjust the inlet pressure to the lowest pressure that reliably opens all system valves.
7. Using a liquid leak detector or soapy water solution, apply liberal amounts to all joints. If bubbles appear, tighten fitting.
8. Actuate Emergency Shutdown Valve and confirm all system valves close promptly.

Operation

1. To actuate charging valve, hold charging valve handle down until dial reads above 25 psi and all system valves are open. The system is now activated.
2. To deactivate system, actuate the Emergency Shutdown Valve to the closed position.

Figure 1
Pneumatic Remote Control Layout

