ME810FSV & ME820FSV SERIES

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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, and ANSI K61.1.

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.

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

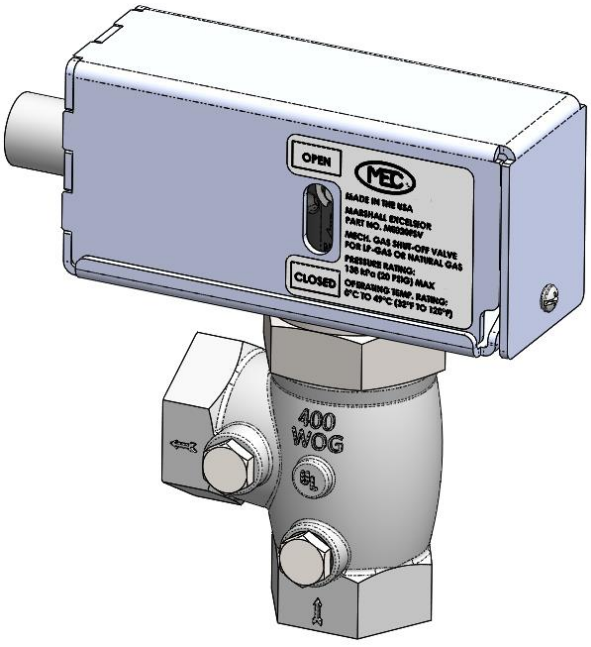
!CAUTION!

Contact or inhalation of liquid propane and/or 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.

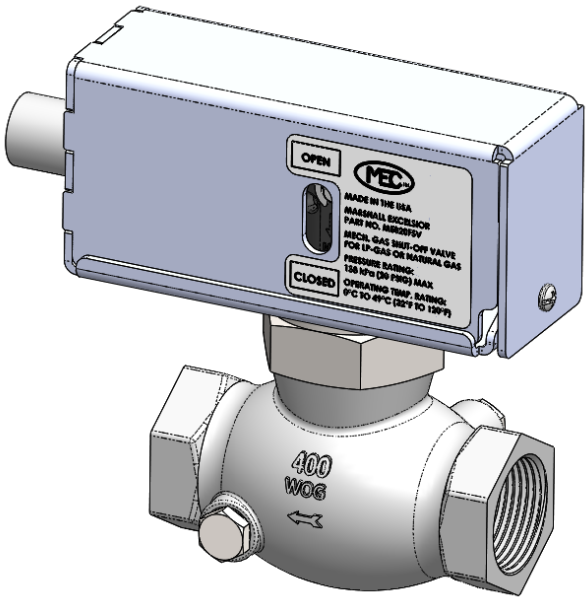
Operational Requirements

The ME810FSV and ME820FSV Fire Shut-off Valve intended to be used as part of certain fire suppression systems and relies on the system to trip the valve closed.

Maximum operating pressure for the ME810FSV/ME820FSV is 138 kPa (20 psig) and the valve is designed to operate in temperatures ranging from 0°C to 49°C (32°F to 120°F). **Using the valve in temperatures above 49°C (120°F) will result in a higher activation forces and may cause the valve to fail to close.** Valves may be installed in a horizontal or vertical orientation. The location of the gas valve shall be accessible and approved by the local authority having jurisdiction. Installation of the mechanical shut-off valve into the gas line must be performed by a contractor licensed and qualified for such work.



ME810FSV



ME820FSV

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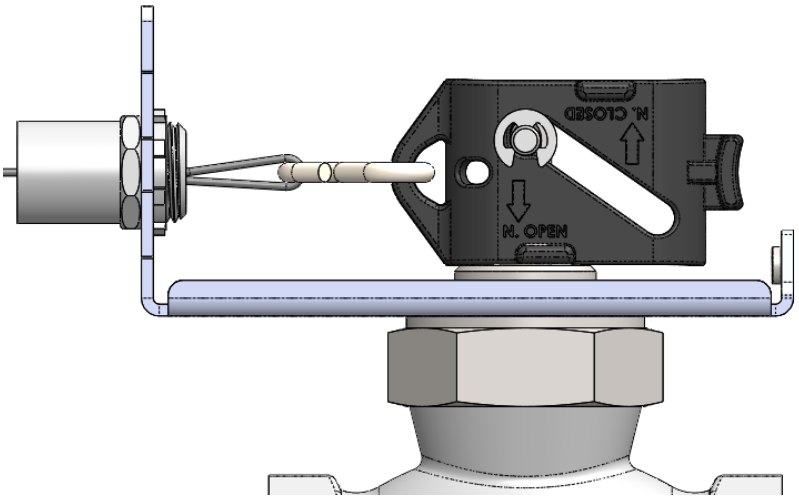
Normally Open (N. OPEN)/Set Open:

The N. OPEN/Set Open configuration (shown to the right in the valve open position) is only for use with an automated suppression system. The valve requires a cable connection from the cam latch to the system control unit through a series of EMT conduit and corner pulleys (not provided by MEC). The cable is required to pulled at least **1.27 cm (0.5 inches**) with at least **50 N (12 lbs)** of force in order for the valve to spring closed. **If the system cannot meet these minimum requirements, do not install this valve.**



!WARNING!

Before attempting to install any gas shut-off device, confirm that the supply of gas has been shut off at the source.

Installation

1. Install valve into the gas line and confirm the gas flow direction matches the direction indicated on the valve body. Any strainers should be placed upstream of the valve. When making NPT connections, **DO NOT USE THE GAS VALVE AS A LEVER FOR TIGHTENING PIPE**.

2. Test the valve and connections for leaks using leak detector or soapy solution.

3. Connecting to control unit and setting the valve:
   a. Install ½" EMT conduit, cable, and corner pulleys (as required, not provided by MEC) to connect the valve mechanism to the automated system control unit gas shut-off trigger mechanism.

   b. Connect the cable from the control unit to the cam latch by either 1) feeding the cable through the front hole of the cam latch and securing the cable with a crimp (see Figure 1), or 2) crimping a loop in the cable and using the provided s-hook to connect it to the cam latch (see Figure 2, MEC recommends crimping the s-hook ends closed). In either case, insure the loop and crimp do not prevent the cam latch from achieving full movement or catch on the routing conduit.

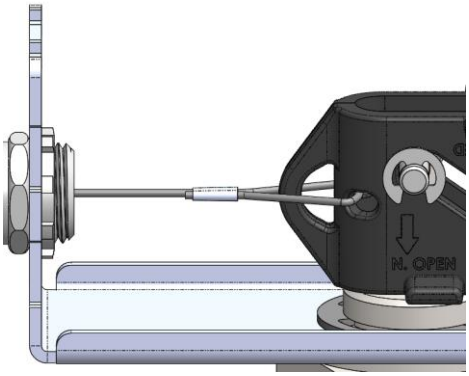


Figure 1 – Direct cable connection

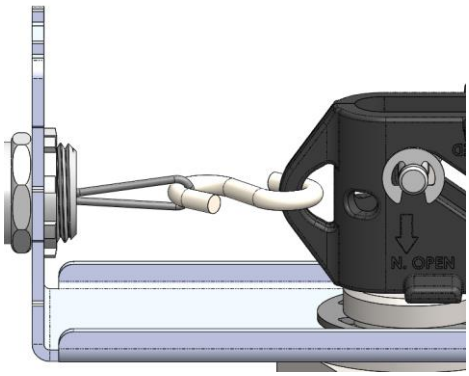


Figure 2 – S-Hook connection

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c. Set the valve by pulling the cam latch back, using the handle feature, until the pin clicks into place (See Figures 3 and 4).

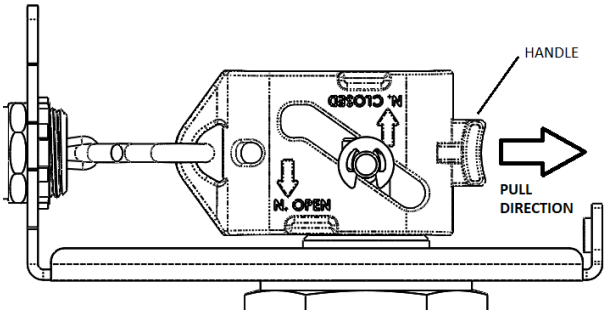

Figure 3 – Valve Closed (S-hook connection)

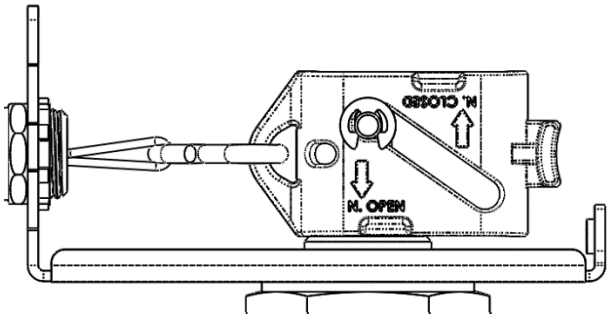

Figure 4 – Valve Set Open (S-hook connection)

d. At the control unit, connect the cable to the gas shut-off trigger mechanism and confirm that the valve is still set open. If the valve has been tripped, reset the cam latch and recheck the cable connection at the control unit.

e. Test entire system and confirm that the valve closes when the gas shut-off trigger is tripped.

f. Reset system and valve's cam latch and replace cover.

!WARNING!

The mechanical gas shut-off valve and associated components should be tested and exercised every time that system maintenance is performed. Maintenance should be performed at intervals not exceeding three months. Failure to test the mechanical gas valve and related components could result in a total system failure during a fire incident.

Resetting the Valve

1. Confirm that the control unit that the valve is connected to is reset.
2. Remove Cover. If necessary, reconnect the cable from the control unit to the s-hook and/or cam latch.
3. Reset the valve by pulling the cam latch back, using the handle feature, until the pin clicks into place (See Figures 5 and 6).

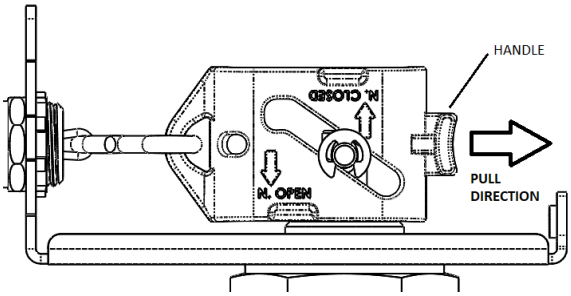

Figure 5 – Valve Closed (N. OPEN Configuration)

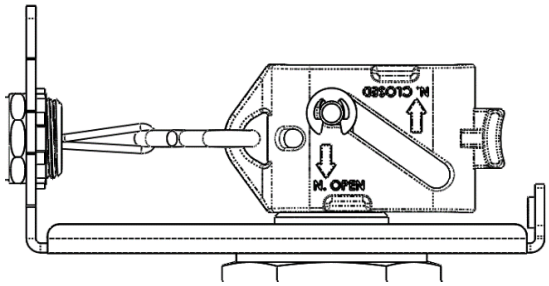

Figure 6 – Valve Set Open (N. OPEN Configuration)

4. Replace cover.