ME990-10-902
1 ¼" INTERNAL VALVE MANUAL LATCH
INSTALLATION AND
OPERATING MANUAL

!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.

MEC equipment must be installed, operated, and maintained in accordance with federal, state, and local codes and MEC instructions. The installation in most states must also comply with NFPA No. 58, and ANSI Standard K61.1.

Only personnel trained in the proper procedures, codes, standards, and regulations of the LP-Gas or NH3 industries should install and service this equipment.

Scope of the Manual

This manual covers instructions for installing the ME990-10-902 latch on the ME990-10 1 ¼" threaded "Excelerator" internal valve.

Introduction

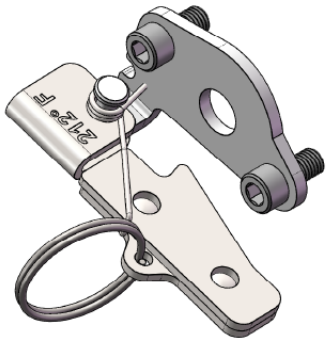
ME990-10-902 latch and remote release mechanism permits the 1 ¼" internal valve to be closed from a remote location. When the valve's operating lever is manually opened, the lever is automatically latched in that position. The lever can be released from a remote location by pulling on a cable attached to the pull ring, thus closing the internal valve. Thermal protection is provided by a built-in fusible element.

Installation

!WARNING!

If the ME990-10 internal valve is installed in a pressurized tank, insure that the line pressure is 0 psi / 0 bar prior to beginning installation of ME990-10-902 latch. Failure to depressurize the line could result in personal injury.

Remote Release: To install the ME990-10-902 latch mechanism, first remove the operating lever and remove the cover plate by removing the two cap screws (retain



cap screws). The new cover plate / latch assembly can be attached to the internal valve with the retained cap screws. Tighten the screws to 25 to 30 inch pounds / 2.8 to 3.5 N•m torque.

A cable must be run from the pull ring on the ME990-10-902 latch to the release handle (MEP650 or MEP651 can be used) located at a remote point. The cable must be free of slack for proper operation, and the installation may require sufficient pulleys to keep the cable away from the side of the tank. Pulling the release handle allows the manual operating lever to return to the closed position. The fusible link in the mechanism will melt if exposed to fire, allowing the internal valve to close.

When closing the internal valve manually, pull back on the pull ring attached to the release mechanism to permit the valve lever to close.

!WARNING!

Since there is strong spring force on the operating lever, avoid getting in the way of the lever as it moves to the closed position. Failure to do so could result in personal injury.

Maintenance

!CAUTION!

A simple preventive maintenance program for the internal valve and its controls will eliminate many potential problems.

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MEC recommends these steps be conducted once a month:

1. Regularly inspect the operating lever to see that it operates freely and that there is no leakage around the stub shaft. If there is leakage or sticking, the packing should be replaced.
2. Check for tight closure of the seat discs regularly. Any leakage indicates a defect in the seat caused from wear or from dirt or scale lodging and embedding in the seat. To check for leakage, close the internal valve, and exhaust downstream pressure. Close the first valve downstream from the internal valve, and note any pressure build-up by means of a pressure gauge. If leakage is indicated, the seat discs should be replaced.
3. All operating controls should be regularly inspected, cleaned, and lubricated. Periodic lubrication of the operating lever / clevis pivot is recommended.
4. Check to see that the ME990-10-902 latch allows the internal valve to fully open and operates freely to close the valve.

Parts Ordering

Important

Use only genuine MEC replacement parts. Components that are not supplied by MEC should not, under any circumstances, be used in any MEC valve, because they might adversely affect the performance of the valve, and could give rise to personal injury and property damage.

When corresponding about this equipment, always reference the equipment model or series number found on the nameplate.

Parts List

1. Packing Retainer
2. Fusible Latch
3. Fusible Latch Spring
4. Manual Latch Washer
5. 1/4"-28 Socket Head Cap Screw, 2 required
6. Clevis Pin
7. Cotter Pin
8. 1-1/4" Steel (Key) Ring