



Installation, Operation, Maintenance Disassembly and Assembly Instructions for Model AL343 -Also for Use with Obsolete Model AL342-

June 2000

Form FVC 036 - Rev. 1

KEEP THIS DOCUMENT WITH THE PRODUCT UNTIL IT REACHES THE END USER.

WARNING

Before installation or removal of Quick Acting Valves, the system must be purged completely of all product. Use proper safety equipment at all times. An abundant supply of clean water must be readily available and easily accessible as a means of providing IMMEDIATE First Aid treatment for exposure to ANYDROUS AMMONIA. For LP-Gas service follow NFPA / ANSI 58 Standard for the Storage and Handling of Liquefied Petroleum Gases, plus all Local and State Safety Regulations. To insure long term safe operation, the manufacturer recommends that under normal service conditions this product should be inspected at least once every five (5) years and be repaired or replaced as required. To prevent the accidental opening of any valve, never carry or grasp a valve by its handwheel or handle.

CAUTION: Contact with or inhalation of Liquid Anhydrous Ammonia or L-P Gas or their vapors can cause serious injury or death. Dispersment must be in accordance with local regulations. For the proper handling and storage of Anhydrous Ammonia refer to ANSI Standard K61.1. For the proper handling and storage of Liquefied Petroleum Gas refer to NFPA Pamphlet 58.

TOOLS REQUIRED: Safety Equipment (i.e. gloves, goggles, and clothing), 12" Pipe Wrench, a 1/4" diameter Drift Pin, a small Ball Peen Hammer, a 7/16" Open End or Boxed End Wrench and a Center Punch

Removal of Valve for Repair or Replacement

REFER TO FIGURE 1 FOR THE FOLLOWING STEPS:

- Step 1: Safety Equipment (i.e. goggles, gloves and clothing) must be worn before continuing with the next step.
Step 2: Before removing valve, place in FULL OPEN POSITION to insure all pressure is bled from the system.
NOTE: See Warning at top of page.

Disassembly Procedure for Repair

REFER TO FIGURE 1 FOR THE FOLLOWING STEPS:

- Step 1: With valve secured in a bench vise, remove Roll Pin (30) using the 1/4" diameter Drift Pin, which allows the Handle Assembly to be removed from Stem (18).
Step 2: Remove Bonnet (22) from Body (12) using the 12" Pipe Wrench.
NOTE: Handle Bearing (27), Wiper Ring (28), Seal Washer (26), Stem Seal (24), Seal Sleeve (25), Seal Retainer (23) and Body/Bonnet Seal (17) will remain with Bonnet (12) when removed.
Step 3: Remove the Stem and Extension Assembly through the top of Body (12).
NOTE: Stem Spring (19), Stem Centering Bushing (16), and Handle Guide (29) will remain with the Stem and Extension Assembly when removed. Retain parts for use during reassembly.

CAUTION: The complete Stem and Extension Assembly should be inspected before reassembly is attempted. The following components should be inspected for proper fit and function before the Stem and Extension Assembly is reused.

1. The Disc Holder (13) with Ball Retainer (15) and Attaching Balls (14) must rotate smoothly with Stem (18).
2. Stem Extension (10) must be shouldered snug against the Disc Holder (13) at location "A" of Fig. 1. This interface is mechanically crimped and can not be disassembled.
3. Disc Holder/Guide (9) must also be shouldered snug against the Stem Extension (10) at location "B" of Fig. 1. This interface is mechanically crimped and can not be disassembled.

If any of the three inspections above yield a problem the complete Stem and Extension Assembly must be replaced. Refer to the Available Kits Chart on the reverse side for part number.

Assembly Procedure

REFER TO FIGURE 1 FOR THE FOLLOWING STEPS WHEN INSTALLING NEW SEAL KIT NO. 342-0022:

- Step 1: Before removing Disc (1) notice the location and depth of the "staking" at the top of the Hex Jam Nut. To remove Disc (1) from Disc Holer/Guide (9), remove Hex Jam Nut (2), and Disc Washer (3).
Step 2: Reassemble using new Disc (1), and new Hex Jam Nut (2). Do not use the old Hex Jam Nut.
NOTE: The Hex Jam Nut (2) must be tightened snug against the Disc Washer (3) and then "staked" using a Center Punch on top of the Nut at the same location and depth as the previous assembly.
Step 3: To replace Stem Seal remove Handle Bearing (27) and Wiper Ring (28) from the top of Bonnet (22). Retain these parts for reassembly. Through the hole in the top of Bonnet (22) press the Seal Washer (26) downward using the 1/4" Drift Pin. This will also remove the Stem Seal (24), Seal Sleeve (25), and Seal Retainer (23). Remove Bonnet/Body Seal (17).
Step 4: To install new Stem Seal and reassemble valve, place the repaired Stem and Extension Assembly or, (new Assembly No. S342-1700), through the top of Body (12) until it rests on Seat (4).

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