



# Installation, Operation, Maintenance Manual For Quick-Jaw Models AL363, L364 & AL366

February 2014

Form FVC076 - Rev 07

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

## WARNING!

1. Contact with or inhalation of Liquid Anhydrous Ammonia (NH<sub>3</sub>) or of LP Gas, can cause **SERIOUS INJURY OR DEATH**.
2. Before installation or removal of any tank valve, the system must be purged of all product.
3. Personal Protective Equipment (PPE), safety gloves, goggles and clothing should be worn. For proper handling and storage of NH<sub>3</sub>, and Liquefied Petroleum Gas, refer to ANSI Standard K61.1. and NFPA Pamphlet 58.
4. An abundant supply of fresh water should be available to provide immediate first aid treatment for exposure to NH<sub>3</sub> and LP Gas.
5. To prevent the accidental opening of any valve, never grasp or carry a valve by its Hand wheel or handle.
6. To ensure a long term and safe operation, the manufacturer recommends that under normal service conditions this product should be inspected at least once every year and be repaired or replaced as required.

## Tools Required

Safety Equipment (i.e. gloves, goggles, and clothing), 12" Adjustable Wrench, 7/16" Open End Wrench, and 12" Pipe Wrench.

## WARNING!

1. **FAILURE TO READ AND UNDERSTAND THE INSTRUCTIONS CONTAINED IN THIS INSTALLATION, OPERATION AND MAINTENANCE MANUAL CAN LEAD TO PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH.** If you have questions about anything contained in this manual or desire additional copies, please call Squibb-Taylor at 1-800-345-8105 and ask for customer service.
2. **If Safety Interlock Arm ⑩ or Safety Interlock Pins ⑪ in Figure 1 are damaged or missing, DO NOT OPERATE THE VALVE.** In this condition, the valve is **EXTREMELY DANGEROUS** since it can easily be disconnected from the acme connection with the **valve in the OPEN position.**
3. LP gas and NH<sub>3</sub> gas vapors are extremely flammable and must not be exposed to any possible source of ignition.
4. Always have an ample supply of water nearby for flooding any body surface coming in contact with NH<sub>3</sub>

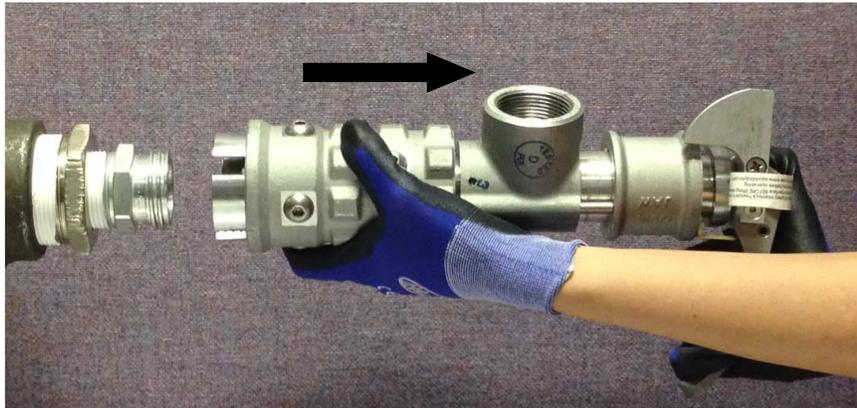
*While this information is presented in good faith and believed to be accurate, Individuals using this literature must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose, system requirements and certifications. The manufacturer reserves the right to change product designs and specifications without notice.*

### Installation - (Refer to Figure 1 for Item Numbers)

- Step 1: Shutoff any supply valves and bleed the attachment hose of all product.
- Step 2: Open the valve and leave it open until installation is complete. Residual liquids in the hose can vaporize and a pressure will build-up in the system if the valve is closed.
- Step 3: Apply PTFE tape or sealant to the male hose thread and screw it securely into the valve Inlet Port ①.
- Step 4: Close the Valve.

### Operating Procedure

- Step 1: Pull the Locking Collar ② upward to expand the Acme Jaws ③.

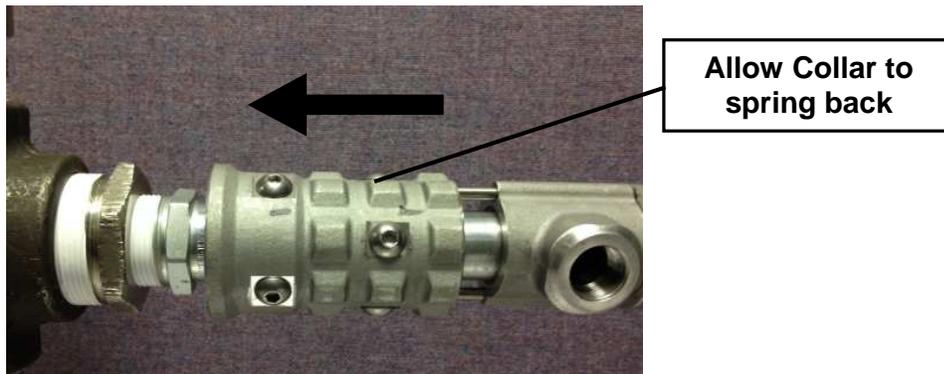


- Step 2: With the Acme Jaws held open, place the Acme Jaws over the Male Acme Connection until the Seal Face ④ is resting squarely on the rubber seal of the Male Connection.



## Operating Procedure, continued

Step 3: Release the Locking Collar ② and allow the Collar spring to close the Acme Jaws, rotate the Collar slightly clockwise until the jaws snap into the Male Acme Threads.



Step 4: Rotate the Locking Collar clockwise to fully tighten the connection.



**WARNING! KEEP TWO HANDS ON THE VALVE UNTIL THE VALVE IS FULLY OPENED**

Step 5: Depress the Handle Latch ⑤ with your thumb and pull the Valve Handle ⑥ upward until the valve is fully open, as shown in position ⑦. The valve is now Connected, open and product is flowing out of the valve.

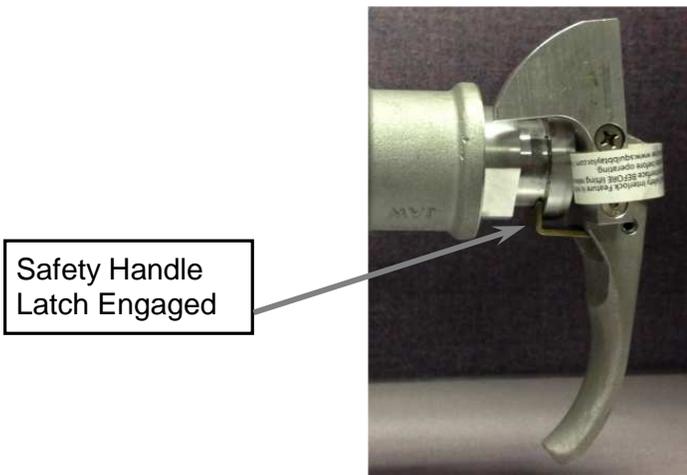
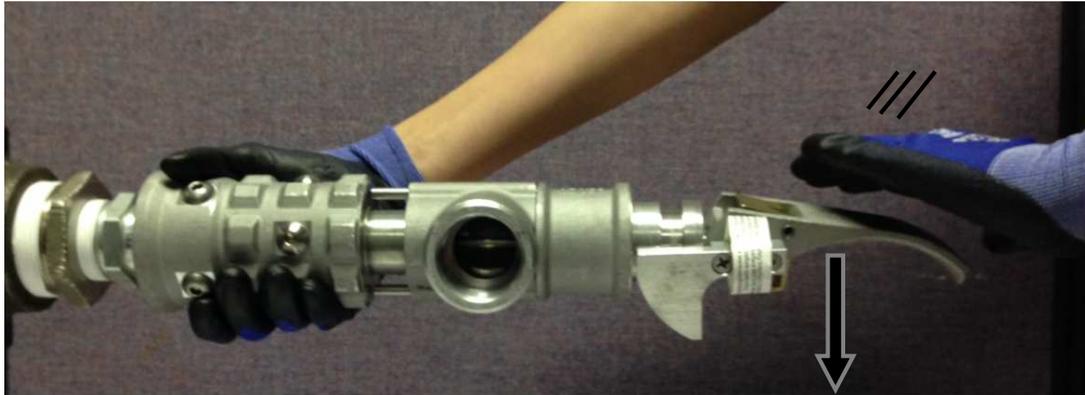
**NOTE:** The Safety Interlock Arm ⑩ prevents lifting of the Locking Collar ② while the Valve Handle is in the OPEN position by the way of the Spring Slider ⑪ and the Safety Interlock Pins ⑫.



*While this information is presented in good faith and believed to be accurate, Individuals using this literature must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose, system requirements and certifications. The manufacturer reserves the right to change product designs and specifications without notice.*

## When Filling Is Complete

**Step 1:** Slap the Valve Handle ⑥ to the CLOSED position ⑧. Ensure the Safety Handle Latch ⑤ is engaged into the bonnet slot ⑨. This prevents opening of the Valve if the handle is struck accidentally..

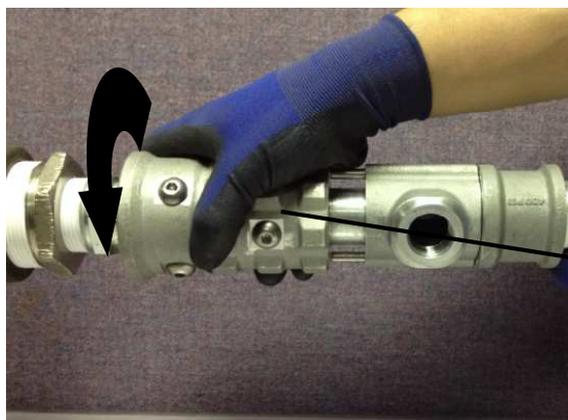


Safety Handle  
Latch Engaged

**Step 2:** Close the Valve connected to the Valve inlet port ①, if present. Some configurations will have Integral Back Checks rather than a Valve.

**WARNING!** STEP 3 IS CRITICALLY IMPORTANT FOR YOUR SAFETY.

**Step 3:** Rotate the Locking Collar ② slowly counter-clockwise to bleed product from the connection BEFORE sliding it upward to release the Acme Threads.



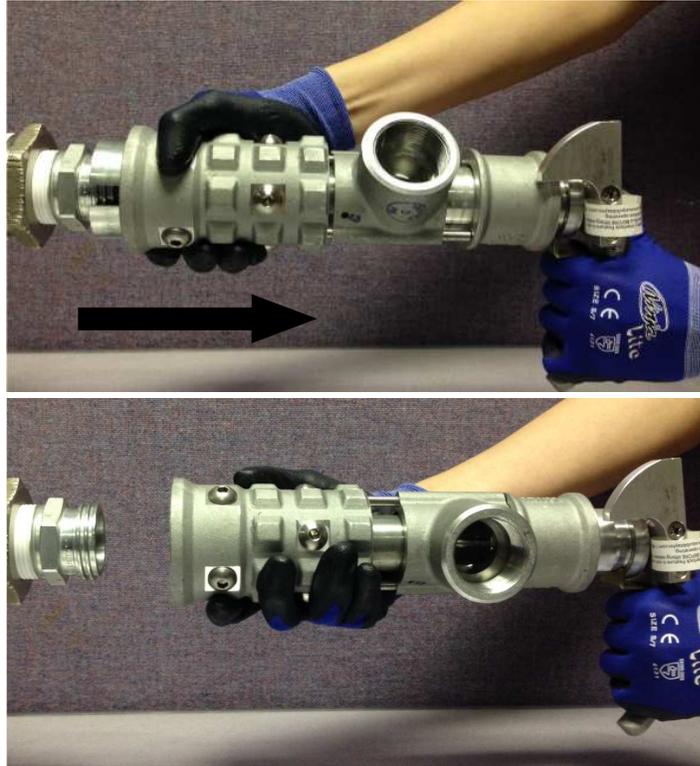
Turn  
Counter-Clockwise

**WARNING!**

**DO NOT PULL UP ON THE LOCKING COLLAR UNTIL BLEEDING OF THE CONNECTION HAS STOPPED. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH.**

Continued...

**Step 4:** After the bleeding of product has stopped, slide the Locking Collar ② upward and pull the Valve away from the connection. The Locking Collar may then be released.



**Maintenance** (Refer to Figure 1 for Item Numbers)

- A. The following maintenance kits are provided for the end user, Specific maintenance instructions are provided for each kit.
1. Shut-off Seal ⑬ replacement.
  2. Valve Handle ⑥ replacement.
  3. Stem Seal ⑭ replacement.
  4. Safety Arm ⑩ replacement.

**WARNING!**

**NEVER OPERATE THE VALVE WITH THE SAFETY INTERLOCK ARM OR SAFETY INTERLOCK PINS MISSING OR DAMAGED!**

- B. Periodically monitor the tightness of the Set Screw ⑰, Collar Screws ⑱ ⑲, and Arm Screws ㉓. These Screws must be kept tight.
- C. Periodically monitor the condition of the Safety Interlock Arm ⑩. Replace if broken, bent, or shortened from its normal length. With the Valve in the open position, the safety Interlock Arm should prevent the Locking Collar ② from moving to an "unlatched" position. If the Safety label ㉔ is torn or missing, replace it with a no charge Safety Label Kit.

*While this information is presented in good faith and believed to be accurate, Individuals using this literature must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose, system requirements and certifications. The manufacturer reserves the right to change product designs and specifications without notice.*



<b>NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
1	VALVE INLET PORT	X
2	LOCKING COLLAR	1
3	ACME JAWS (SET OF 4)	1
4	SEAL FACE	X
5	HANDLE LATCH	1
6	VALVE HANDLE	1
7	OPEN POSITION	X
8	CLOSED POSITION	X
9	BONNET SLOT	1
10	SAFETY INTERLOCK ARM	1
11	SPRING SLIDER	1
12	SAFETY INTERLOCK PINS	2
13	SHUT-OFF SEAL	1
14	STEM SEAL	1
15	COLLAR SCREW	X
16	COLLAR SCREW	X
17	SET SCREW	1
18	BONNET SEAL	1
19	LATCH SPRING	X
20	HANDLE PIN	1
21	RETAINING RINGS	1
22	O-RING	X
23	ARM SCREWS	2
24	SAFETY LABEL	1

<b>AVAILABLE KITS</b>		
<b>NUMBER</b>	<b>NAME &amp; PARTS INCLUDED</b>	<b>ASSEMBLY PROCEDURE</b>
QJ-363-0020	SEAL KIT	SHUT-OFF SEAL ⑬ BONNET SEAL ⑱
QJ-363-0021	VALVE HANDLE KIT	VALVE HANDLE ⑥ HANDLE LATCH ⑤ LATCH SPRING ⑲ HANDLE PIN ⑳
QJ-363-0023	STEM SEAL KIT	STEM SEAL ⑭ BONNET SEAL ⑱
QJ-363-0024	SAFETY ARM KIT	SAFETY ARM ⑩ ARM SCREWS ㉓ SAFETY LABEL ㉔
QJ-363-0025	SAFETY LABEL KIT	SAFETY LABEL ㉔
QJ-363-1701	STEM KIT	

*While this information is presented in good faith and believed to be accurate, Individuals using this literature must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose, system requirements and certifications. The manufacturer reserves the right to change product designs and specifications without notice.*

## User Safety Responsibility Statement for All Parker Products

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

*While this information is presented in good faith and believed to be accurate, Individuals using this literature must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose, system requirements and certifications. The manufacturer reserves the right to change product designs and specifications without notice.*