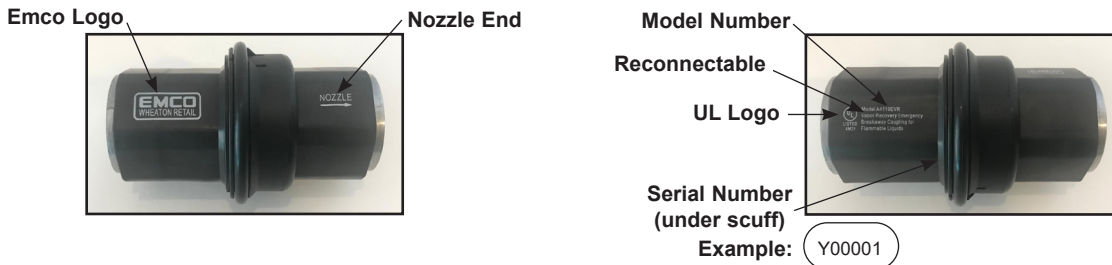




# A4119EVR

Reconnectable Coaxial  
SafeBreak® Valve

## Permanent ID:



## INSTALLATION INSTRUCTIONS

### Service Tools Required:

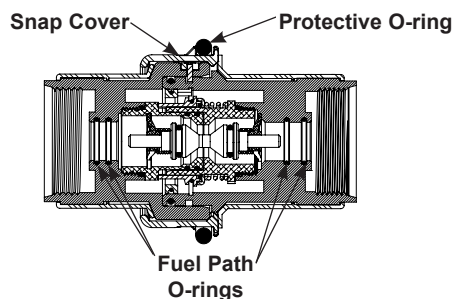
- 1 7/8" Crows Foot
- Gasoline Approved Container
- Petroleum Jelly or other Suitable Lubricant
- Torque Wrench w/ 50ft-lbs Setting
- Adjustable Wrench w/ Flat Jaws 1 7/8" to 2 1/4"

### CAUTION:

1. Always barricade work area to keep pedestrians and vehicles from accessing the dispenser.
2. Always use a gasoline approved container or test can when performing any type of preventive maintenance.
3. Before attempting to install, remove or service the A4119EVR SafeBreak® valve, turn off and tag out power to the corresponding dispenser.
4. Before attempting to install, remove or service the A4119EVR SafeBreak® valve, close the emergency impact valves located inside the base of the dispenser. Relieve the line pressure and standing fuel through the nozzle spout into a gasoline approved container by compressing the bellows and squeezing the lever.
5. If a hose retractor is used, the A4119EVR SafeBreak® valve must be attached on the nozzle end of the retractor clamp.

**IMPORTANT: Failure to perform cautions 3 and 4 may result in a hazardous gasoline spill, damage to equipment, personal injury and/ or death.**

### Pre-Inspection:



1. Carefully unpack and remove the A4119EVR SafeBreak® valve from the shipping container and evaluate for any kind of damage.
2. Verify the fuel path o-rings located on both ends of the A4119EVR SafeBreak® valve. All o-rings must be properly secured inside the factory machined grooves.
3. Verify the snap cover and protective o-ring are properly secured.



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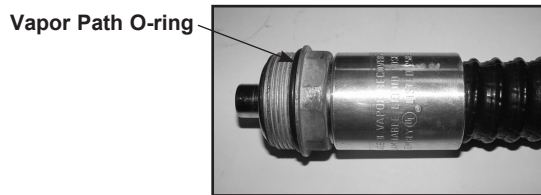
## Pre-Installation:



4. Lightly lubricate the fuel path o-rings using petroleum jelly or other suitable lubricant.



5. Before attempting to install the A4119EVR SafeBreak® valve onto the whip hose, verify the word “NOZZLE”, which is printed on the scuff guard of the SafeBreak® valve, is on the opposite end. Verify the vapor path o-ring is properly secured onto the connector, and in good working condition. Lightly lubricate the o-ring using petroleum jelly or other suitable lubricant.

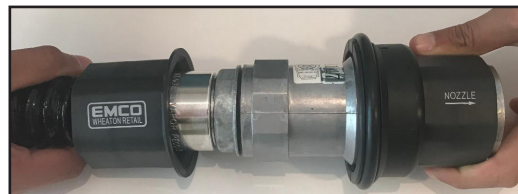


6. Before attempting to install the A4119EVR SafeBreak® valve onto the curb hose, verify the vapor path o-ring is properly secured onto the connector, and in good working condition. Lightly lubricate the o-ring using petroleum jelly or other suitable lubricant.

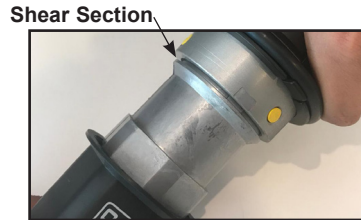
**IMPORTANT: Do not use pipe thread sealant compound or Teflon tape when installing the A4119EVR SafeBreak® valve. Failure to comply will void warranty.**

## Installation:

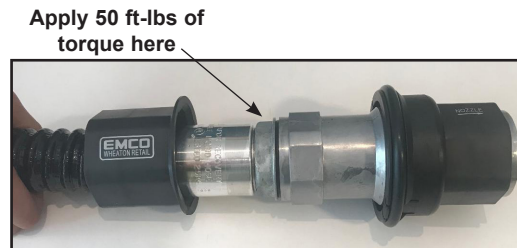
**IMPORTANT: If this is a new facility installation, the fueling point must be flushed into a gasoline approved container before installing the A4119EVR SafeBreak® valve. Failure to perform this procedure could result in foreign material becoming lodged inside the SafeBreak® valve’s fuel path causing a reduction in fuel flow.**



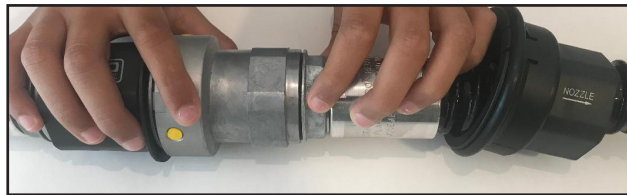
7. Remove the scuff guard by sliding the whip hose. Attach the A4119EVR SafeBreak® valve onto the whip hose connector. Tighten by hand to avoid cross threading. Take caution to avoid pinching the vapor path o-ring.



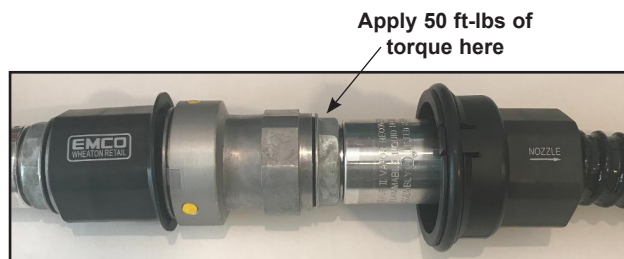
**IMPORTANT: Never tighten across the shear section of the A4119EVR SafeBreak® valve. Failure to comply will result in damage to the SafeBreak® valve and void warranty.**



- Using a 1 7/8" crows foot with a torque wrench and a 2 1/4" wrench (with flat jaws) secure the A4119EVR SafeBreak® valve and tighten the whip hose connector to 50 ft-lbs of torque.



- Remove the snap cover by pushing down on opposite tabs, then slide both the snap cover and scuff guard onto the curb hose. Attach the A4119EVR SafeBreak® valve onto the curb hose connector. Tighten by hand to avoid cross threading. Take caution to avoid pinching the vapor path o-ring.



- Using a 1 7/8" crows foot with a torque wrench and a 2 1/4" wrench (with flat jaws) secure the A4119EVR SafeBreak® valve and tighten the curb hose connector to 50 ft-lbs of torque.

**Post Functional Tests:**

- Carefully purge the trapped air from the fueling point. Begin dispensing by compressing the bellows and then squeezing the lever. Dispense one gallon of fuel into a gasoline approved container.
- Functional test the automatic shutoff of the A4005EVR nozzle. Begin dispensing by compressing the bellows and then squeezing the lever. Place the hold open latch in "high" clip position to secure the lever. Dispense one gallon of fuel into a gasoline approved container. At the same time, lower the spout tip into the standing fuel until the vent hole is completely submersed. The main valve of the A4005EVR nozzle will automatically close causing fuel flow to stop.



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**IMPORTANT:** Perform step 12 a minimum of three times to assure the insertion interlock, hold open latch and the automatic shutoff of the A4005EVR nozzle are operating properly.

According to UL requirement 842, the fuel flow rate must be greater than 3 gallons per minute for the automatic shutoff to operate properly. A common problem cause of low flow rates are dirty or clogged dispenser filters.

**Post Inspection:**

13. Before placing the A4005EVR nozzle onto the dispenser cradle, inspect all hanging hardware connections for potential fuel leaks. Make proper adjustments if necessary.

## PREVENTIVE MAINTENANCE

1. Weekly inspect the A4119EVR SafeBreak® valve, evaluate for any kind of damage. Damaged components must be replaced with factory authorized service kits.

<u>Part Number</u>	<u>Description</u>
494748EVR	Fuel Path O-ring Kit
495920	Shear Pin Kit
495843	Snap Cover Kit
495866	Scuff Guard Kit

2. Weekly inspect all hanging hardware connections for potential fuel leaks.

**IMPORTANT:** Should a drive-off or incidence of customer abuse occur, follow the initial inspection and function instructions found in the installation section.

## PERFORMANCE STANDARDS & SPECIFICATIONS

This component was factory tested to, and met the following specifications:

1. Meets ARB Material Compatibility with Fuel Blends as per Section 3.8 of CP-201.
2. TP-201.2J – Complies with the maximum allowable component pressure drop of 0.04 inches of water column @ 60 CFH.

**IMPORTANT:** Leave these installation instructions, product warranty registration card and the warranty tag with the station owner and/or operator.

## RECONNECTING PROCEDURES

### Repair & Replacement Kits:



**Shear Pin Kit P/N 495820**  
3 Shear Pins  
1 Vapor Path O-ring



**Snap Cover Kit P/N 495843**  
1 Snap Cover  
1 Protective O-ring



**Scuff Guard Kit P/N 495866**  
1 Male Scuff Guard  
1 Female Scuff Guard

### Service Tools Required:

- EMCO Clamp Tool p/n 572909
- Petroleum Jelly or other Suitable Lubricant
- Scribe Tool w/ 90 Degree Tip
- Towel Wipes

**IMPORTANT:** Refer to page 1, caution steps 1 through 5, before attempting to reconnect the A4119EVR SafeBreak® valve. Failure to perform the required steps may result in a hazardous gasoline spill, damage to equipment, personal injury and/ or death.

### Pre-Inspection:



**Figure 1: Male Half (dispenser end)**

Vapor Path O-ring



**Figure 2: Female Half (nozzle end)**

1. Keep the nozzle of the ground by placing onto the dispenser cradle.
2. Carefully inspect both male and female halves for external and internal damage that may have occurred during separation. If signs of damage refer to page 1, pre-inspection, step 1 and replace with a new A4119EVR SafeBreak® valve.
3. Carefully inspect the snap cover, protective o-ring and scuff guards for damage or wear. Replace if necessary.

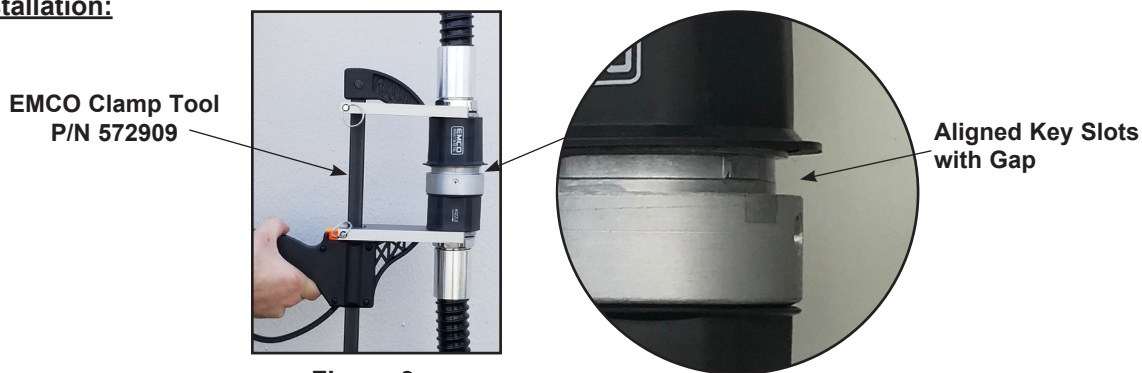
**CAUTION:** If damage or missing parts are found do not attempt to reconnect the existing A4119EVR SafeBreak® valve. Failure to comply may result in a hazardous gasoline spill, damage to the equipment or personal injury and/ or death.

**Pre-Installation:**

4. Using a scribe tool with a 90 degree tip replace the vapor path o-ring located on the male half and lightly lubricate with petroleum jelly or other suitable lubricant. **Refer to Figure 1.**
5. Using a towel wipe clean the inside area of the female half and lightly lubricate with petroleum jelly or other suitable lubricant. **Refer to Figure 2.**

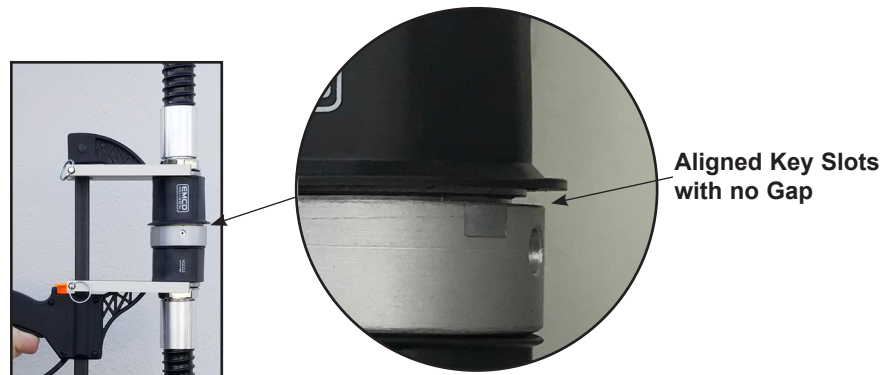
**IMPORTANT: Do not use pipe thread sealant compound as a lubricant.**

**Installation:**



**Figure 3**

6. Place and secure the EMCO Clamp Tool P/N 572909 on both ends of the A4119EVR SafeBreak® valve. Align the top and bottom key slots before attempting to reconnect the male and female halves. **Refer to Figure 3.**



**Figure 4**

7. Slowly squeeze the lever of the EMCO Clamp Tool P/N 572909 until both the male and female halves come together. **Refer to Figure 4.**

**CAUTION: Reconnection can cause a small amount of gasoline to leak out of the SafeBreak®. A towel wrapped loosely around the SafeBreak® can help to minimum spills.**





Figure 5



Figure 6

8. Install each of the three shear pins into the openings of the female half. Be sure the yellow button sits flush with the outside surface. Once all three shear pins are secured in place remove the EMCO Clamp Tool P/N 572909 by squeezing the lever and relief lever at the same time. **Refer to Figures 5 and 6.**



Figure 7



Figure 8 Figure 9



9. Slide the snap cover upward over the shear pins until locked and secured into position. Verify by pulling downward. Be sure the protective o-ring is secured onto the snap cover groove. **Refer to Figures 7, 8 and 9.**

### **Post Function Tests:**

10. Refer to page 3, post functional tests, steps 11 and 12.
11. Perform a meter creep test by keeping the fueling point activated without dispensing fuel for approximately 60 seconds. The meter reading on the dispenser display in gallons should not increment; this indicates the fuel path of the hanging hardware is leak free. If the meter reading increments, this indicates a possible faulty component that suffered damage during the drive-off occurrence; this includes the nozzle, curb or whip hoses.

### **Post Inspection:**

12. Refer to page 4, post inspection, step 13.