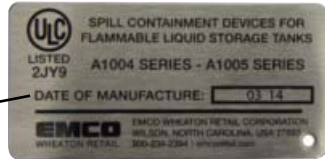


INSTALLATION INSTRUCTIONS

Permanent Identification:



Month/Year of Manufacture



Model #

<u>Model Numbers</u>	<u>Description</u>
A1004EVR-215A	Single Wall, Drain Valve, NPT
A1004EVR-215AB	Single Wall, Drain Valve, BSPT
A1004EVR-215S	Double Wall, Drain Valve, NPT
A1004EVR-215SB	Double Wall, Drain Valve, BSPT

Required Service Tools:

- Tape Measure
- Torque Wrench w/ 15 ft-lbs. Setting
- Pipe Thread Sealant Compound
- EMCO Spill Containment Wrench p/n A0081-001H Wrench
- Torque Wrench w/ 100 to 150 ft-lbs. Setting
- Ratchet
- ½" Socket
- ½" Crows Foot
- ¾" Socket
- ½" Hand Wrench

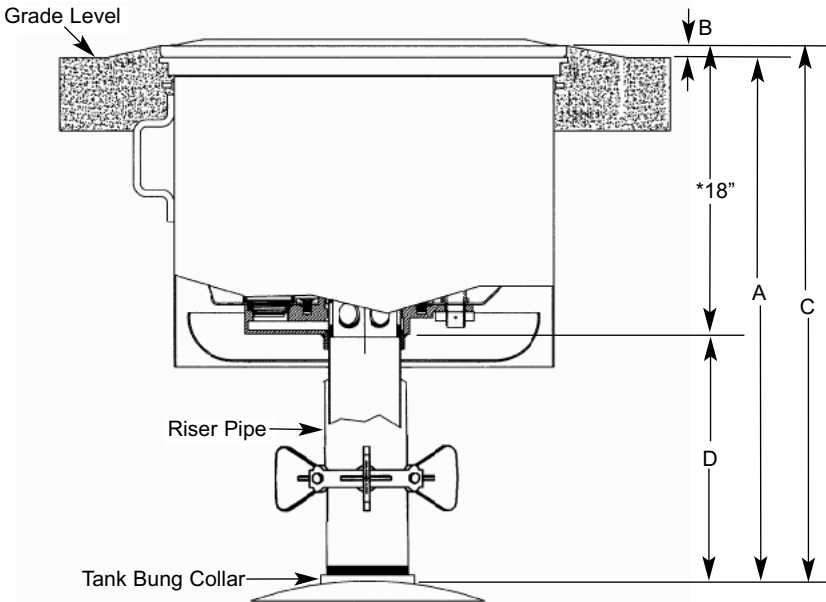
CAUTION:

Always barricade to keep pedestrians and vehicles from accessing the storage tank area during preventive maintenance and/or compliance testing of the EMCO phase I EVR system.

ATTENTION:

Barricader de toujours garder les piétons et les véhicules d'accéder à la zone de stockage lors de la maintenance préventive et/ou des tests de conformité de la phase EMCO système je EVR.

Sizing the Riser Pipe



1. Find measurement A, the distance between grade level to the top of the tank bung collar.
2. Find measurement C, by adding measurement A to measurement B, the crown height.

EXAMPLE: Measurement C equals Measurement A, plus Measurement B, the crown height.

IMPORTANT: Crown height must be a minimum of 1 inch for proper water run-off.

IMPORTANT: Hauteur de la couronne doit être au minimum de 1 pouce pour le bon écoulement de l'eau.

Note: Jacks are provided for adjustment of spill container height. Adjustment can be made by turning the top bolt clockwise to raise & counter-clockwise to lower. Total adjustment is approximately $\pm 1 \frac{5}{8}$

3. *The height of the A1004EVR spill containment varies between single wall and double wall configurations, refer below for proper height specifications.

<u>Model Number</u>	<u>Spill Containment</u>	<u>Height (inches)</u>
A1004EVR-215A	Single Wall	18.0
A1004EVR-215S	Double Wall	19.2

4. Find measurement D, by subtracting the height of the A1004EVR spill containment from measurement C, then add 2.0 inches for the riser pipe threads.
5. After properly sizing the 4-inch diameter riser pipe, cut threads to either NPT or BSPT standards. Use a non-hardening gasoline resistant pipe thread sealant compound before installing the 4-inch diameter riser pipe to the tank bung collar.

IMPORTANT: Do not use hacksaw to cut riser pipe.

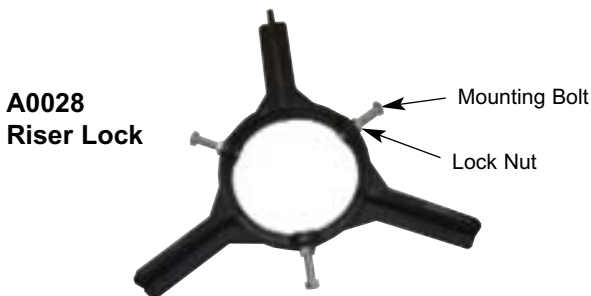
IMPORTANT: Ne pas utiliser la scie à métaux pour couper la colonne montante.

Installation Example for the A1004EVR-215A Spill Containment

1. The tank burial is 36 inches from grade level to the top of the tank bung collar. Measurement A equals 36 inches.
2. The site installation requires a 1-inch crown height for proper water run-off. Measurement B is 1 inch. Add measurement A 36 inches, to measurement B, 1 inch, equals measurement C, 37 inches.
3. The height of the **A1004EVR-215A single wall spill containment** is 18 inches. Subtract the height of 18 inches from measurement C, 37 inches, then add 2 inches for the riser pipe threads.
4. The required length for the 4-inch diameter riser pipe is measurement D, 21 inches.

Note: Riser pipe must be within +/- 1 1/4" of Dimension D. If not within this range, either recut the riser pipe or add riser extensions to achieve this dimension. DO NOT OVER STRETCH BELLOWS.

Riser Lock to Riser Pipe



IMPORTANT: All single wall configurations come standard from the factory with one A0028 riser lock. The purpose of the A0028 riser lock is to prevent the riser pipe from turning during removal and installation of the primary liner.

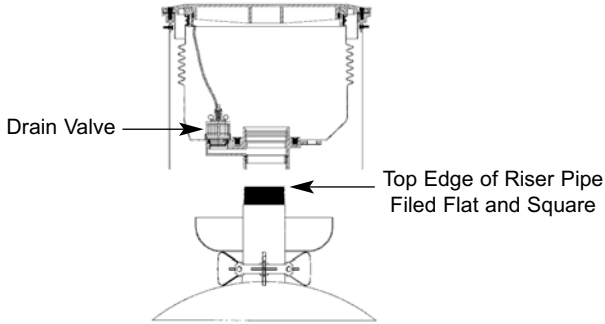
IMPORTANT: All double wall configurations come standard from the factory with one A0028 riser lock. The purpose of the A0028 riser lock is to prevent the bottom flange and riser pipe from turning during the removal and installation of the primary and secondary liners. A second A0028 riser lock is highly recommended but optional.

1. Before attempting to install the A0028 riser lock onto the riser pipe, loosen all mounting bolts and lock nuts using a 1/2" hand wrench.
2. Install the A0028 riser lock onto the top of the riser pipe. Slide the A0028 riser lock downward until resting on the backfill or top of tank.

IMPORTANT: When installing a second A0028 riser lock, repeat Steps 1 and 2.

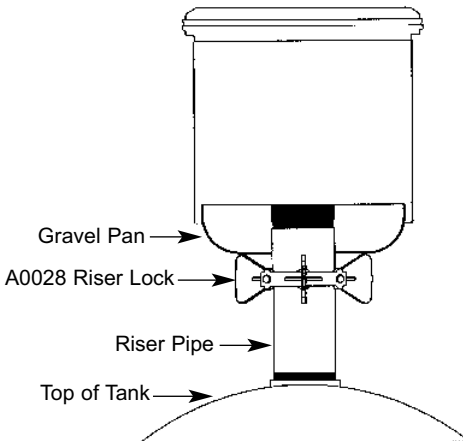
3. Install the gravel pan onto the top of the riser pipe. Slide the gravel pan downward until resting on the A0028 riser lock.

Spill Containment to Riser Pipe



1. Before installing the A1004EVR spill containment, the top edge of the riser pipe must be filed flat and square to insure a proper sealing surface between the riser pipe and base of the A1004EVR spill containment.
2. Apply a non-hardening gasoline resistant pipe thread sealant compound to the threads of the riser pipe. Manually tighten the A1004EVR spill containment onto the riser pipe to avoid cross threading. Use the EMCO Spill Containment Wrench p/n A1004-001H to tighten and torque the A1004EVR spill containment between 100 and 150 ft-lbs.

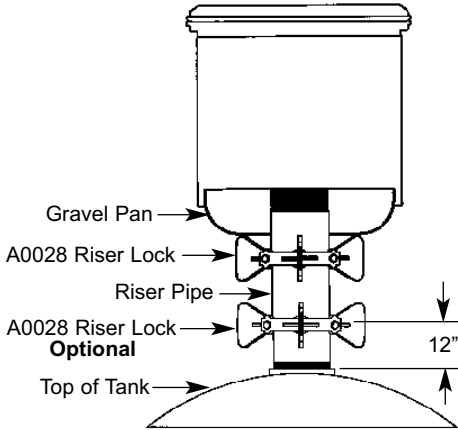
Riser Lock Installation for Single Wall Configurations



3. Slide the gravel pan and A0028 riser lock upward against the bottom of the A1004EVR spill containment. Using a $\frac{1}{2}$ " socket and torque wrench tighten and torque all mounting bolts to 15 ft-lbs. Using a $\frac{1}{2}$ " crows foot and torque wrench tighten and torque all lock nuts to 10 ft-lbs.

IMPORTANT: When installing a second A0028 riser lock continue to Step 4.

Riser Lock Installation for Double Wall Configurations



4. Slide the second A0028 riser lock upward keeping a distance of 12 inches from top of tank. Using a $\frac{1}{2}$ " socket and torque wrench tighten and torque all mounting bolts to 15 ft-lbs. Using a $\frac{1}{2}$ " crows foot and torque wrench tighten and torque all lock nuts to 10 ft-lbs.

A1004EVR Spill Containment Backfill and Concrete Finish

1. Complete the backfill over the tank and around the gravel guard of the A1004EVR spill containment. Be sure the height of the backfill meets the depth requirements for the concrete pad.
2. Concrete must completely fill around and under the A1004EVR spill containment rim to insure proper anchoring.
3. Before the concrete sets remove all excess concrete from the top of A1004EVR spill containment rim and water run-off channels.

IMPORTANT: Crown height must be a minimum of 1 inch for proper water run-off.

Spill Containment with Overfill Prevention Valve or Straight Drop Tube, Riser Seal, Swivel Fill Adapter and Fill Adapter Cap

1. When installing the A1004EVR spill containment with an Emco Wheaton overfill prevention valve, please refer to the A1100EVR installation instructions.
2. When installing the A1004EVR spill containment with an Emco Wheaton straight drop tube, please refer to the A0020EVR and A0020EVRC installation instructions.

IMPORTANT: The tank fill riser installation will only allow for one type of EVR drop tube configuration.

IMPORTANT: L'installation remplissage du réservoir de la colonne montante permettra seulement pour un type de configuration de tube de descente EVR.

3. When installing the A1004EVR spill containment with an Emco Wheaton riser seal, please refer to the 494096 installation instructions.
4. When installing the A1004EVR spill containment with an Emco Wheaton swivel fill adapter, please refer to the A0030-124S installation instructions.
5. When installing the A1004EVR spill containment with an Emco Wheaton fill adapter cap, please refer to the A0097 installation instructions.

PREVENTIVE MAINTENANCE

1. Quarterly verify that the inside of the A1004EVR spill containment is free of all dirt, gravel, debris, etc. Should cleaning be required, wipe the inside wall and bottom of the A1004EVR spill containment using soapy water and disposable towels.
2. After each delivery, the station operator must remove any standing fuel from the inside of the A1004EVR spill containment. If gasoline does not drain, refer to the #494118 drain valve preventive maintenance instructions.

IMPORTANT: During routine preventive maintenance all damaged components must be replaced with factory authorized service kits.

IMPORTANT: Lors de l'entretien préventif de routine tous les composants endommagés doivent être remplacés par des kits d'entretien agréés par l'usine.

Service Repair Kits

<u>Part Number</u>	<u>Description</u>
• 494118	Drain Valve Kit
• 494554	Lid and Seal
• 494550EVR	-215S Primary Repair Kit
• 494602EVR	-215A Primary Repair Kit

PERFORMANCE SPECIFICATIONS

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

1. TP-201.1D - Complies with the allowable maximum leakrate of 0.17 CFH @ 2.00 inches of water.

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

IMPORTANT: Laissez ces instructions d'installation, garantie carte d'enregistrement et l'étiquette de garantie avec le propriétaire de la station et/ou de l'exploitant.

Tank Operator Responsibilities

- Tank operator must ensure that all Federal, Provincial and local codes are being met during the filling of the tank.
- All operators must be familiar with proper filling procedures.
- The operator responsible for transferring product to an above ground storage tank must take all reasonable steps to prevent spillage.
- The delivery hose from the tank's fill pipe must not be disconnected before the hose has been drained completely.
- When tank vehicles are being unloaded, the vehicle operators must remain:
 - (a) in constant view of the transfer nozzle and fill pipe; and
 - (b) in constant attendance at the discharge control valve.

Emco Wheaton Retail Corp.
2300 Industrial Park Dr. • Wilson, NC 27893
252-243-0150 • 252-243-4759 (fax)

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