

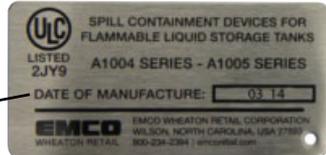


A1004EVR

Spill Containment
Direct Burial Application

INSTALLATION INSTRUCTIONS

Permanent Identification:



Month/Year of Manufacture



Model #

Model Numbers

Description

| | |
|----------------|------------------------------|
| A1004EVR-004 | Fatboy, No Drain, NPT |
| A1004EVR-006 | Fatboy, No Drain, BSPT |
| A1004EVR-011 | Slimline, No Drain, NPT |
| A1004EVR-013 | Slimline, No Drain, BSPT |
| A1004EVR-211A | Single Wall, No Drain, NPT |
| A1004EVR-211AB | Single Wall, No Drain, BSPT |
| A1004EVR-211S | Double Wall, No Drain, NPT |
| A1004EVR-211SB | Double Wall, No Drain, BSPT |
| A1004EVR-317A | Single Wall, No Drain, NPT |
| A1004EVR-317S | Double Wall, No Drain, NPT |
| A1004EVR-317AS | Single Wall, Drain Plug, NPT |
| A1004EVR-317SS | Double Wall, Drain Plug, NPT |

Required Service Tools:

- Tape Measure
- Torque Wrench w/ 15 ft-lbs. Setting
- Pipe Thread Sealant Compound
- EMCO Spill Containment Wrench p/n A0081-001H*
- EMCO Spill Containment Wrench p/n A0081-003M*
- Torque Wrench w/ 100 to 150 ft-lbs. Setting
- Ratchet
- 1/2" Socket
- 1/2" Crows Foot
- 3/4" Socket
- 1/2" Hand Wrench

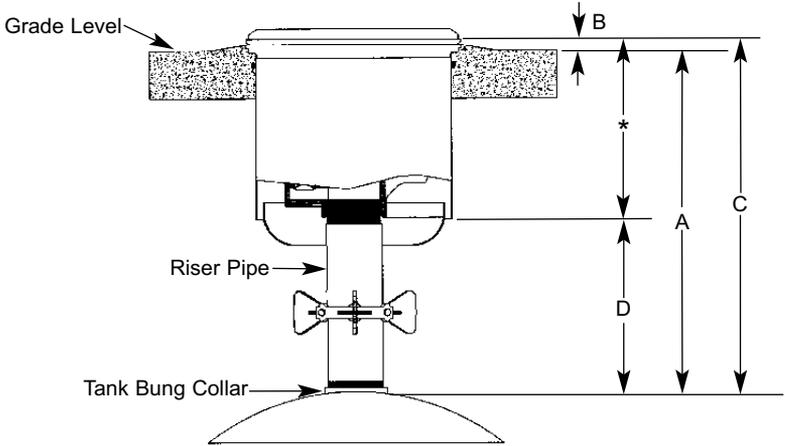
***Must use A0081-001H Wrench for installation with drain applications; A0081-003M for non-drain applications. Maximum torque: 150 ft. lbs.**

Do not exceed max torque or twist rim to tighten, as damage may occur.

CAUTION:

1. 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.

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.

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>*Install Height (inches)</u> |
|---------------------|--------------------------|---------------------------------|
| A1004EVR-004 | Fatboy | 13.8 |
| A1004EVR-006 | Fatboy | 13.8 |
| A1004EVR-011 | Slimline | 14.3 |
| A1004EVR-013 | Slimline | 14.3 |
| A1004EVR-211A | Single Wall | 14.3 |
| A1004EVR-211S | Double Wall | 18.8 |
| A1004EVR-317A | Single Wall | 15.0 |
| A1004EVR-317S | Double Wall | 17.1 |
| A1004EVR-317AS | Single Wall | 12.9 |
| A1004EVR-317SS | Double Wall | 15.3 |

IMPORTANT: Do not remove the factory installed jack assembly or stabilizer bars until the concrete has set. Failure to do so will change the factory set height of the A1004EVR spill containment causing an improper installation.

4. Find measurement D, by subtracting the install height of the A1004EVR spill containment from measurement C, then add 1.0 inch 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.

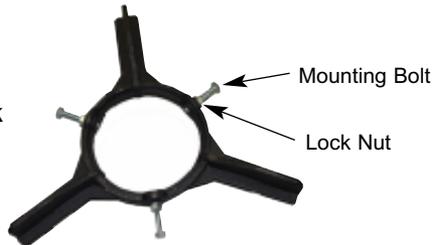
Installation Example for the A1004EVR-211A Spill Containment

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-211A single wall spill containment** is 14.3 inches. Subtract the height of 14.3 inches from measurement C, 37 inches, then add 1 inch for the riser pipe threads.
4. The required length for the 4-inch diameter riser pipe is measurement D, 23.7 inches.

IMPORTANT: The riser pipe must be sized to the correct length before attempting to install the A1004EVR spill containment. Do not over stretch the spill containment bellows to compensate for an under sized or poorly cut riser pipe. Failure to do so will result in damage to the spill containment causing a possible fuel leak into the backfill, and/ or void warranty.

Riser Lock to Riser Pipe

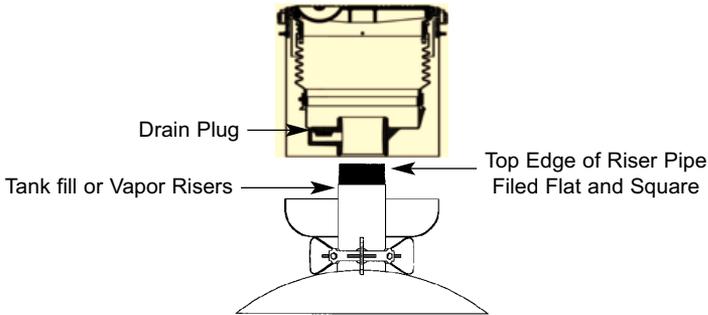
A0028 Riser Lock



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

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 over the top of the riser pipe. Slide the A0028 riser lock downward until resting on the backfill or top of tank.
3. Install the gravel pan over the top of the riser pipe. Slide the gravel pan downward until resting on the A0028 riser lock.

Spill Containment to Riser Pipe



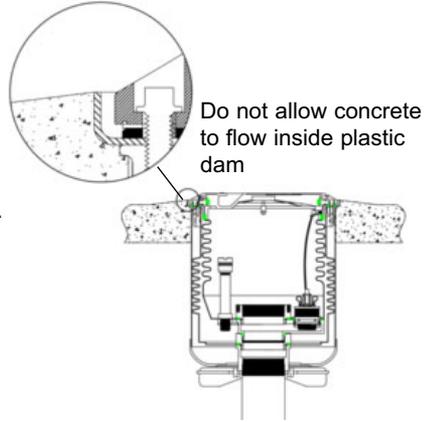
1. Before installing the A1004EVR spill containment, the top edge of the riser pipe must be filed flat and square to insure a proper sealing surface between the riser pipe and base of the 1004EVR spill containment.

IMPORTANT: The A1004EVR spill containment comes with a factory installed non-removal drain plug, and is CARB EVR approved for use on the tank fill or vapor risers.

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 A0081-001H if the spill container has a drain channel or use p/n A0081-003M if the spill container does not. Torque the A1004EVR spill containment between 100 and 150 ft-lbs.
3. Lift the gravel pan up and touching the bottom of the spill container. Use duct tape to secure it.
4. Position the riser lock halfway between tank top and bottom of the spill containment and tighten bolts.

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.

Removing the Jack Assembly or Spacer Bars

1. Once the concrete has set, remove the factory installed jack assembly or spacer bars from the inside of the A1004EVR spill containment:
 - Models A1004EVR-004, 006, 011 and 013 - Remove the 3 spacer bars and dispose.
 - Models A1004EVR-211 - Use a $\frac{3}{4}$ " socket and ratchet wrench to turn the adjustment bolt counter clockwise to loosen. Swing the top cross bar away from the inside edge of the rim and dispose.
 - Models A1004EVR-317A and A317S - Remove the cotter pin from the top of each jack, and slide the bracket off of the clevis. The unthreaded bolt and bottom brackets will remain in place. Dispose of the cotter pins, jacks, brackets, clevis and bolts.
 - Models A1004EVR-317AS and -317SS – Do not come with factory installed spacer bars or jack assemblies. The spill containment height is fixed.
2. Clean and remove all debris from the inside of the A1004EVR spill containment.
3. Paint the A1004EVR spill containment rim and lid to the desired fuel grade color code.

Refer to attached TP-160 Test Procedures.

Spill Containment with Swivel Vapor Adapter and Vapor Adapter Cap

1. When installing the A1004EVR spill containment with an Emco Wheaton swivel vapor adapter, please refer to the A0076-124S installation instructions.
2. When installing the A1004EVR spill containment with an Emco Wheaton vapor adapter cap, please refer to the A0099 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.

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

Service Repair Kits

| <u>Part Number</u> | <u>Description</u> |
|--------------------|-----------------------------------|
| • 494466EVR | -211A Primary Repair Kit |
| • 494467EVR | -211S Primary Repair Kit |
| • 494798EVR | -317A Primary Repair Kit |
| • 494795EVR | -317S Primary Repair Kit |
| • 495394EVR | -317AS Primary Repair Kit |
| • 495395EVR | -317SS Primary Repair Kit |
| • 495067K | Vent Valve Replacement Kit |
| • 495625 | EZ-Gage O-ring Kit |
| • 566332 | Lid and Seal -003 Series |
| • 570012 | Triple Wiper Seal, A1004-316CLID |
| • A1004-210LID | Lid and Seal -211 and -011 Series |
| • A1004-316CLID | Lid and Seal -317 Series |
| • A1004-210TEST | Vacuum Test Apparatus |
| • A1004-210GAGE | Interstitial Gauge |
| • A1004-316LID | Lid and Seal Composite |

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: 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.

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