



Section 2

700L Series Secondary Contained Spill Bucket



Installation and Maintenance Instructions Direct 700L Series Secondary Contained Spill Bucket

IMPORTANT: Please read these warnings and use the assembly instructions completely and carefully before starting. Failure to do so may cause product failure, or result in environmental contamination due to liquid leakage into the soil, creating hazardous spill conditions.

IMPORTANT: This Spill Container is pre-assembled for your convenience and ease of installation. Check to make sure the unit is intact and undamaged and all parts have been supplied. Never substitute parts for those supplied. Doing so may cause product failure.

WARNING-DANGER: Using electrically operated equipment near gasoline or gasoline vapors may result in a fire or explosion, causing personal injury and property damage. Be sure that the working area is free from such hazards, and always use proper precautions.

NOTE: At all times when product is in the storage tank keep the riser pipe capped, so the vapors cannot escape into the environment.

NOTICE: OPW products must be used in compliance with applicable federal, state, and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with the environment and material to be handled. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials, and specification are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation.

Standard Product Warranty

OPW warrants that products sold by it are free from defects in materials and workmanship for a period of one year from the date of manufacture by OPW (ECO products two years from date of manufacture.) Proof of purchase may be required. As the exclusive remedy under this limited warranty, OPW, will at its sole discretion, repair, replace, or issue credit for future orders for any product that may prove defective within the one year date of manufacture period (repairs, replacements, or credits may be subject to prorated warranty for remainder of the original warranty period, complete proper warranty claim documentation required.) This warranty shall not apply to any product that has been altered in any way, which has been repaired by any party other than a service representative authorized by OPW, or when failure is due to misuse, or improper installation or maintenance. OPW shall have no liability whatsoever for special, incidental or consequential damages to any party, and shall have no liability for the cost of labor, freight, excavation, clean up, downtime, removal, reinstallation, loss of profit, or any other cost or charges.

For any product certified to California 2001 standards, OPW warrants that product sold by it are free from defects

in material and workmanship for a period of one year from date of manufacture or one year from date of registration of installation not to exceed 15 months from date of manufacture by OPW.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

NOTE: *In California it is prohibited to use spill container drain valves on spill containers that are exclusively used for vapor return risers.*

NOTE: *The sealable cover (SC) adjustment nut is set at the factory, but due to environmental conditions it may be necessary to adjust it to either improve sealing or ease cover removal.*

WARNING: **The primary containment bucket consists of three components cast iron ring, bellows, and bucket bottom. These parts are held together with stainless steel retaining bands. DO NOT adjust the stainless steel retaining bands securing the bellows to the containment bucket top ring or the containment bucket bottom. Adjusting the retaining bands voids any and all warranties on this product.**

WARNING: **If the cover is removed, for any reason, follow the Operation and Maintenance instruction as noted. Always inspect and replace damaged o-rings and seals and install new ones. Never reuse damaged o-rings or seals as it may result in an improper seal. Only qualified, competent, well-trained technicians should perform maintenance. Common sense and good judgment should always be exercised. The contractor's understanding of all related site conditions prior to starting the project is essential. If the contractor does not have a clear understanding of the required work and site conditions, the contractor is advised to seek clarification prior to starting any portion of the project.**

NOTICE TO DELIVERY DRIVER: All delivery drivers MUST inspect the inside of the container for water or contaminants other than fuel prior to delivery. If water or contaminants are present, then they MUST be removed by the use of absorbent towels before proceeding. Dispose of towels and debris safely and per all applicable local, state, and federal codes. After delivery is complete, the driver MUST drain any excess fuel that may have spilled into the container from their delivery hose by pulling on the drain valve until the fluid is completely gone.

Performance Specifications: This Spill Container drain valve has been manufactured and tested to the following

California specifications: Leak Rate at 0.17 CFH @ 2.0 " W.C.

Tools Required:

- 61SA-TOOL – Torque Tool
- TC-400 – Torque Cap
- CHS-550 or CHS-450 – Hole Saw for 4" or 3" Entry Fitting
- BFT-300 – Template for Bolted Fitting

Torque Specifications:

Spill Container 4" NPT, 125 ft-lbs minimum to 250 ft-lbs maximum.

4" Nipple, 4" NPT, 125 ft-lbs minimum to 250 ft-lbs maximum.

Drain Valve clamps, 5/16-18 UN thread, 11.5 ft-lbs minimum to 13.5 ft-lbs maximum.

Mounting Ring Stud, 5/16-18 UN thread, 15 ft-lbs minimum to 20 ft-lbs maximum.

Manhole bolts, 5/16-18 UN thread, 15 ft-lbs minimum to 20 ft-lbs maximum.

Secondary Contained Spill Bucket Manhole Installation Instructions

Mark off finish grade. (See Figure 1.)

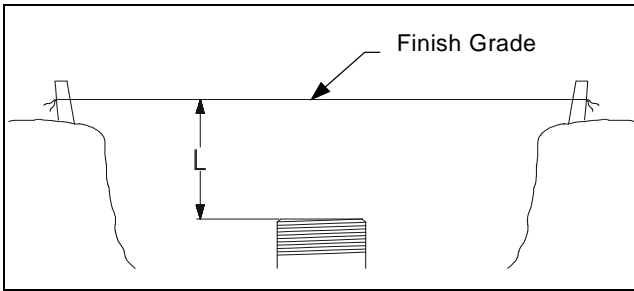


Figure 4

Cut the riser(s) from the underground tank so that both the fill and vapor risers are set below the final grade. Use the dimensions below:

<u>Spill Container</u>	<u>Inches below</u>
<u>grade (L)</u>	
5 Gal. Cast Iron Base	18½"
5 Gal. Composite Base	19
5/8"	

Note: Add an extra 3-1/4" when using an OPW FSA-400 Face Seal Adaptor, recommended for Composite Base. Add an extra 1 ¾" when using the FSA-400-S Face Seal Adaptor, recommended for Cast Iron Base. (See Figure 1.)

3. Remove Spill Container Cover, Spill Container Mounting Ring, and Manhole Cover.
4. Slide the Fiberglass basin over the riser pipe, make sure the band clamps on the entry fitting are loose to allow for adjusting the basin over the riser. (See Figure 2.)

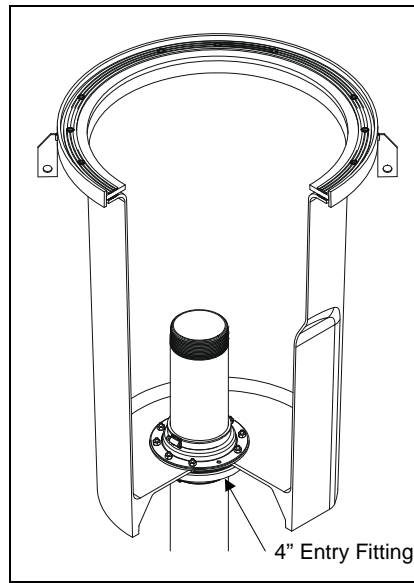


Figure 5

5. Elevate the Fiberglass Basin and steel ring to grade.
6. Secure the fiberglass basin to the riser by tightening the entry fitting band clamps.

Deburr and thoroughly clean riser pipe(s).

Apply pipe dope to riser(s). The pipe dope is to be a non-hardening, gasoline resistant, pipe thread seal compound.

Install OPW FSA-400 (Composite Base) or FSA-400S (Cast Iron Base) Face Seal Adaptor onto riser. (Recommend Torque, 4" NPT, 125 ft-lbs min. to 250 ft-lbs max.). Apply pipe dope to FSA. The pipe dope is to be a non-hardening, gasoline resistant, pipe thread seal compound. This is optional for spill containers that are on the vapor lines. (See Figure 3.)

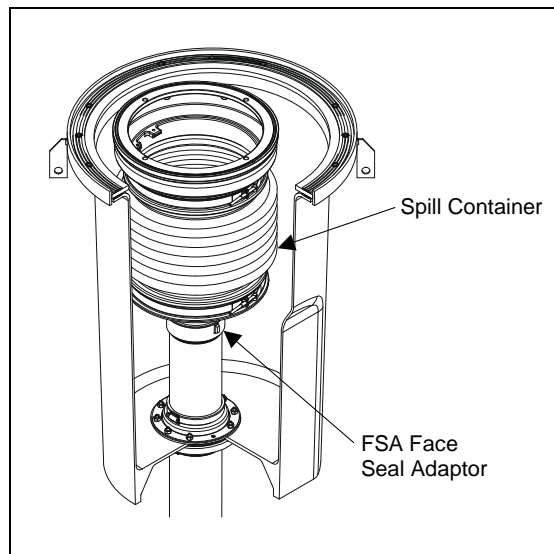


Figure 6

Thread on spill container. (See Figure 3.)

Grounding Wire Specifications:

- Use a #10 coated wire TFFN or THHN from grounding.
- 5/16-18 threaded bolts SST (Stainless)
- 5/16-18 SST nuts
- 5/16 SST lock-washer

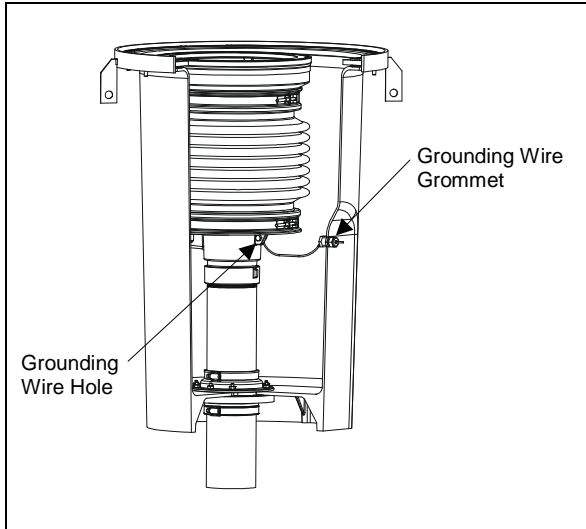


Figure 7

- 11a.) Measure the distance for the required wire from the grounding wire hole in the primary bucket base to secondary bucket grounding lug.
- 11b.) Attach one bolt, nut, and lock-washer with the grounding wire to the grounding wire hole in the primary base.
- 11c.) Attach one nut and lock-washer with the grounding wire to the grounding lug located on the inside of the secondary bucket.
- 11d.) Attach one nut and lock-washer with the grounding wire and grounding lug located on the outside of the secondary bucket.
- 11e.) Loop grounding wire to the next bucket. Repeat steps 2-4.
- 11f.) Attach the last grounding wire in the series of buckets to a grounding rod.

Using the 61SA-TOOL, tighten the spill container onto the nipple with a minimum torque of 125 ft.-lbs. and a maximum torque of 250 ft.-lbs.

WARNING: Do NOT tighten the containment bucket by using the mounting ring at the top of the bucket. Tightening the bucket using the mounting ring may lead to failure of the unit.

Assure both upper and lower entry fitting band clamps are tightly secured to the riser.

Install the steel cover, centering the riser as close as possible in the containment openings. Be very careful not to move or damage the O-Rings.

Inspect the containment bucket O-Rings and Mounting Ring O-Rings for damage. Replace the o-ring gasket(s) if they are damaged.

Place the mounting ring over the containment buckets and rotate the mounting ring until the studs are aligned with the bucket ring holes. (See Figure 5)

Thread nut and lock washer onto studded mounting ring. Tighten the mounting ring retaining bolts until the containment bucket o-rings make contact with the multi-port cover.

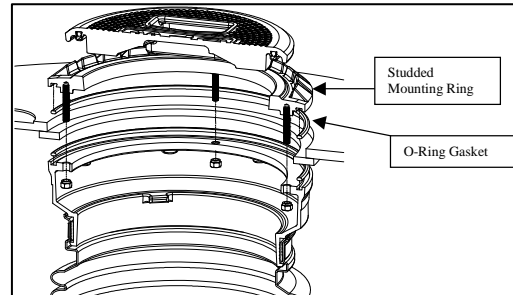


Figure 5

In a crossing pattern, torque the bolts down between 15 to 20 ft.-lbs. 6 Point Ratcheting box wrench is recommended. (See Figure 6.)

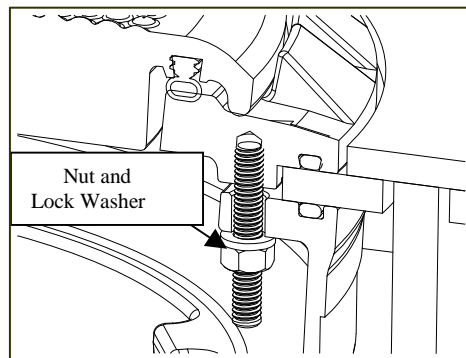


Figure 6

Install the spill bucket covers.

(Optional): Install the product identification disc on the spill bucket cover and multi-port cover in the I.D. disc recess.

Cover the multi-port perimeter ring and cover with plastic to prevent concrete from settling in the drainage areas.

It is required that the perimeter ring and skirt assembly and the multi-port cover be set as an assembled unit, with the bolts engaged. Failure to engage the bolts may result in the distortion of the ring and improper fit of the ring to cover after the concrete is poured.

When pouring the concrete, hand shovel or trowel the concrete around the multi-port assembly to prevent the unit from moving or shifting, which can

cause alignment problems and future maintenance problems.

Note: Do not stand on the multi-port before the concrete has set up.

It is recommended that the paved contours around POMECO covers be adequately sloped to direct water flow away from the cover and direct water runoff from adjacent areas away from POMECO covers. 1" minimum slope is recommended. (See Figure 7.)

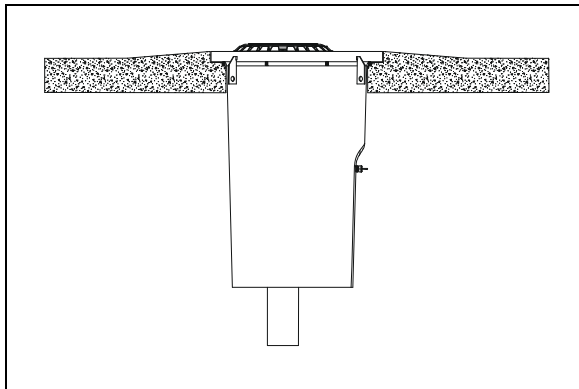


Figure 7

Remove the plastic after the concrete has set up.

After installation is complete, water test the multi-port fixture. The recommended water test procedures include:

- a) **Spraying water on cover(s) for 5 to 10 minutes, using a commonly available watering device such as a lawn sprinkler.**
- b) **Standing water test, not to exceed ½" in water depth for a period of 5 to 10 minutes.**

Operation and Maintenance:

Weekly: Inspect the interior of both the primary and secondary container for water or other contaminants. If water or contaminants are present, then they **MUST** be removed by the use of absorbent towels. Dispose of towels and debris safely and per all applicable local, state, and federal codes. Check that the cover is in good condition and properly identified. Replace the cover as necessary. Inspect the bucket walls for cracks, bulges, or holes. If any exist, have that spill container barricaded and contact maintenance personnel immediately for repairs.

Semiannually: Follow all state and local required hydrostatic or vacuum testing on the primary bucket and secondary basin. Inspect and clean the drain valve screen. Remove accumulated dirt and grit. If the drain valve screen becomes clogged, remove the valve, soak in water and use high-pressure air to clean. Reinstall the drain valve to its proper position and test the valve per California ARB TP201-1C Test Procedure. If problems persist, replace the drain valve with P/N 1DK-2100-EVR (specified torque 11.5 ft-lbs min to 13.5 ft-lbs max, 5/16-18 UN thread).

Testing Spill Containers

Use California ARB TP201-1C or TP201-1D Test Procedures: These Test Procedures will check the seals between the drain valve, nipple and rotatable adapter. To test the spill containers base and bellows fill the container with water. A drop in the water level of 1/16" or greater after one hour means that a leak exists. To determine where the leak is, look for a steady stream of bubbles coming from one of the joints or water leaking on the outside of the bucket. **NOTE:** Do not drain the water into the UST after the test is complete. Water must be disposed of per local requirements for hazardous waste. If the leak cannot be corrected the spill container should be replaced with another.

Important: Leave these instructions with Station Operator as per CARB Requirements



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Installation and Maintenance Instructions Remote 700L Series Secondary Contained Spill Bucket

IMPORTANT: Please read these warnings and use the assembly instructions completely and carefully before starting. Failure to do so may cause product failure, or result in environmental contamination due to liquid leakage into the soil, creating hazardous spill conditions.

IMPORTANT: This Spill Container is pre-assembled for your convenience and ease of installation. Check to make sure the unit is intact and undamaged and all parts have been supplied. Never substitute parts for those supplied. Doing so may cause product failure.

WARNING-DANGER: Using electrically operated equipment near gasoline or gasoline vapors may result in a fire or explosion, causing personal injury and property damage. Be sure that the working area is free from such hazards, and always use proper precautions.

NOTE: At all times when product is in the storage tank keep the riser pipe capped, so the vapors cannot escape into the environment.

NOTICE: OPW products must be used in compliance with applicable federal, state, and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with the environment and material to be handled. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials, and specification are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation.

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For any product certified to California 2001 standards, OPW warrants that product sold by it are free from defects

in material and workmanship for a period of one year from date of manufacture or one year from date of registration of installation not to exceed 15 months from date of manufacture by OPW.

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NOTE: *In California it is prohibited to use spill container drain valves on spill containers that are exclusively used for vapor return risers.*

NOTE: *The sealable cover (SC) adjustment nut is set at the factory, but due to environmental conditions it may be necessary to adjust it to either improve sealing or ease cover removal.*

WARNING: **The primary containment bucket consists of three components cast iron ring, bellows, and bucket bottom. These parts are held together with stainless steel retaining bands. DO NOT adjust the stainless steel retaining bands securing the bellows to the containment bucket top ring or the containment bucket bottom. Adjusting the retaining bands voids any and all warranties on this product.**

WARNING: **If the cover is removed, for any reason, follow the Operation and Maintenance instruction as noted. Always inspect and replace damaged o-rings and seals and install new ones. Never reuse damaged o-rings or seals as it may result in an improper seal. Only qualified, competent, well-trained technicians should perform maintenance. Common sense and good judgment should always be exercised. The contractor's understanding of all related site conditions prior to starting the project is essential. If the contractor does not have a clear understanding of the required work and site conditions, the contractor is advised to seek clarification prior to starting any portion of the project.**

NOTICE TO DELIVERY DRIVER: All delivery drivers MUST inspect the inside of the container for water or contaminants other than fuel prior to delivery. If water or contaminants are present, then they MUST be removed by the use of absorbent towels before proceeding. Dispose of towels and debris safely and per all applicable local, state, and federal codes. After delivery is complete, the driver MUST drain any excess fuel that may have spilled into the container from their delivery hose by pulling on the drain valve until the fluid is completely gone.

Performance Specifications: This Spill Container drain valve has been manufactured and tested to the following

California specifications: Leak Rate at 0.17 CFH @ 2.0 " W.C.

Tools Required:

- 61SA-TOOL – Torque Tool
- TC-400 – Torque Cap
- CHS-550 or CHS-450 – Hole Saw for 4" or 3" Entry Fitting
- BFT-300 – Template for Bolted Fitting

Torque Specifications:

Spill Container 4" NPT, 125 ft-lbs minimum to 250 ft-lbs maximum.

4" Nipple, 4" NPT, 125 ft-lbs minimum to 250 ft-lbs maximum.

Drain Valve clamps, 5/16-18 UN thread, 11.5 ft-lbs minimum to 13.5 ft-lbs maximum.

Mounting Ring Stud, 5/16-18 UN thread, 15 ft-lbs minimum to 20 ft-lbs maximum.

Manhole bolts, 5/16-18 UN thread, 15 ft-lbs minimum to 20 ft-lbs maximum.

Secondary Contained Spill Bucket Manhole Installation Instructions

Mark off finish grade. (See Figure 1.)

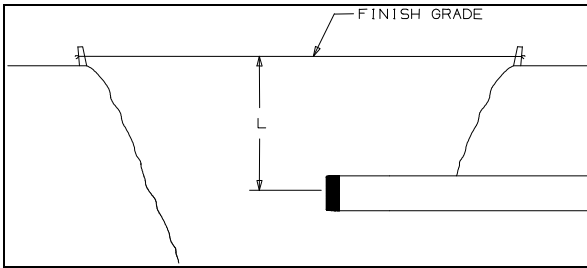


Figure 8

Remove the four (4) bolts that secure the manhole cover to the ring, and remove the manhole cover.

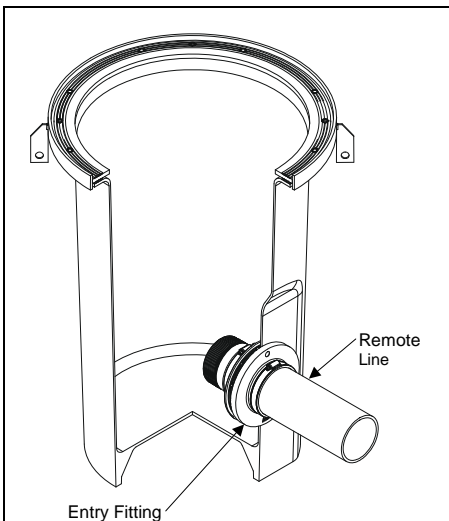


Figure 9

Measure length, L, and mark the distance from the center of the remote line to grade on the outside diameter of the fiberglass bucket, measuring from the top of metal ring. Follow instructions for the bolted flange. The Maximum Length is 26 5/16" and Minimum Length is 21 1/2".

Deburr and thoroughly clean remote line.

Slide the Fiberglass basin over the remote line; make sure the band clamps on the entry fitting are loose to allow for adjusting the basin over the remote line. (See Figure 2).

Apply pipe dope to remote line. The pipe dope is to be a non-hardening, gasoline resistant, pipe thread seal compound.

Install elbow to remote line. Then calculate the nipple length with the equation below. (See Figure 3.)

Spill Container

<u>grade</u>	<u>Inches below</u>
5 Gal. Cast Iron Base	18
1/8"	
5 Gal. Composite Base	19 1/2"

Elbow

Standard
Low Profile

Height
3 13/16"
1/2"

Nipple Length

L – Spill Container – Elbow = Nipple Length
(Round length to closest standard length)

Deburr and thoroughly clean nipple.

Apply pipe dope to nipple. The pipe dope is to be a non-hardening, gasoline resistant, pipe thread seal compound. Thread 4" pipe 125 to 250 ft. lbs.

Align the elbow at the proper position for installation. Secure the band clamps on the entry fitting to the required torque suggested in the installation instructions. (See Figure 3.)

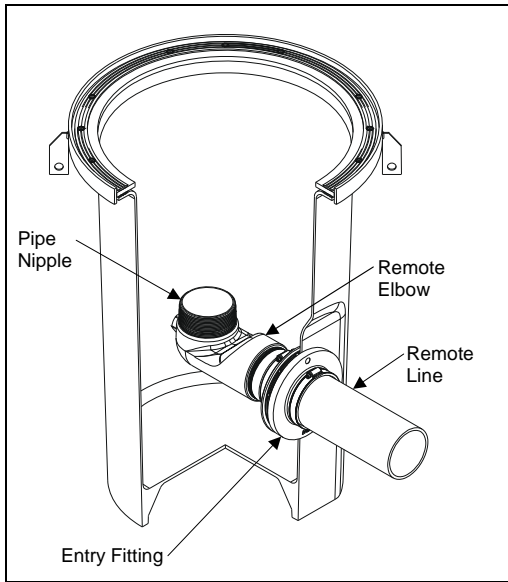


Figure 10

Thread on spill container. (See Figure 4.)

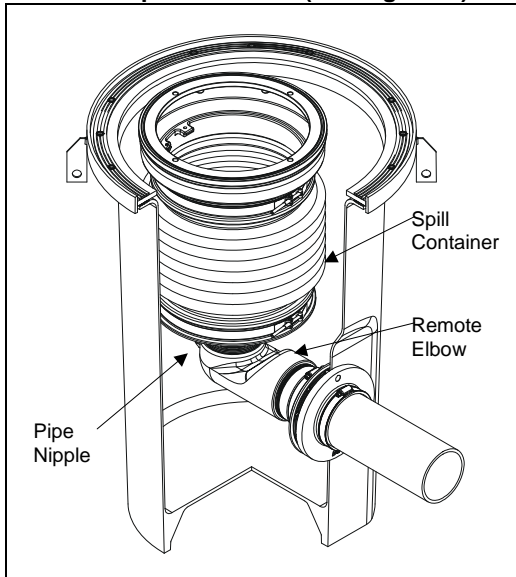


Figure 11

Grounding Wire Specifications:

- Use a #10 coated wire TFFN or THHN from grounding.
- 5/16-18 threaded bolts SST (Stainless)
- 5/16-18 SST nuts
- 5/16 SST lock-washer

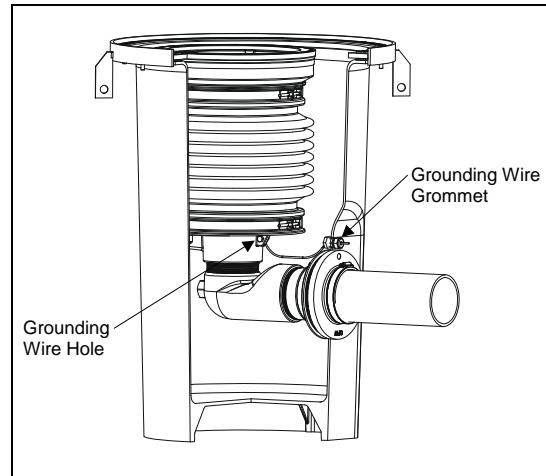


Figure 12

- 12a.) Measure the distance for the required wire from the grounding wire hole in the primary bucket base to secondary bucket grounding lug.
- 12b.) Attach one bolt, nut, and lock-washer with the grounding wire to the grounding wire hole in the primary base.
- 12c.) Attach one nut and lock-washer with the grounding wire to the grounding lug located on the inside of the secondary bucket.
- 12d.) Attach one nut and lock-washer with the grounding wire and grounding lug located on the outside of the secondary bucket.
- 12e.) Loop grounding wire to the next bucket. Repeat steps 2-4.
- 12f.) Attach the last grounding wire in the series of buckets to a grounding rod.

Using the 61SA-TOOL, tighten the spill container onto the nipple with a minimum torque of 125 ft.-lbs. and a maximum torque of 250 ft.-lbs.

WARNING: Do NOT tighten the containment bucket by using the mounting ring at the top of the bucket. Tightening the bucket using the mounting ring may lead to failure of the unit.

Install the steel cover, centering the riser as close as possible in the containment openings. Be very careful not to move or damage the o-rings.

Inspect the containment bucket o-rings and mounting ring o-Rings for damage. Replace the o-ring gasket(s) if they are damaged.

Place the rain tight or sealable cover mounting ring over the containment buckets and rotate the mounting ring until the studs are aligned with the bucket ring holes. (See Figure 6.)

Thread nut and lock washer onto studded mounting ring. Tighten the mounting ring retaining bolts until the containment bucket o-rings make contact with the multi-port cover.

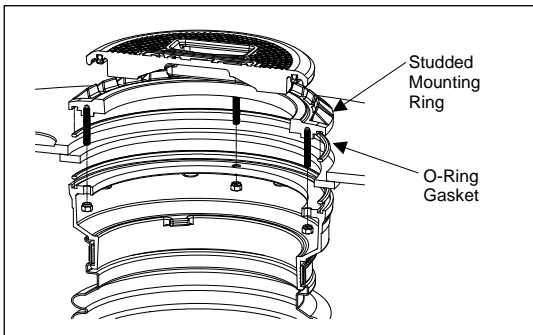


Figure 6

In a crossing pattern, torque the bolts down between 15 to 20 ft.-lbs. A 6 Point Ratcheting box wrench is recommended. (See Figure 7.)

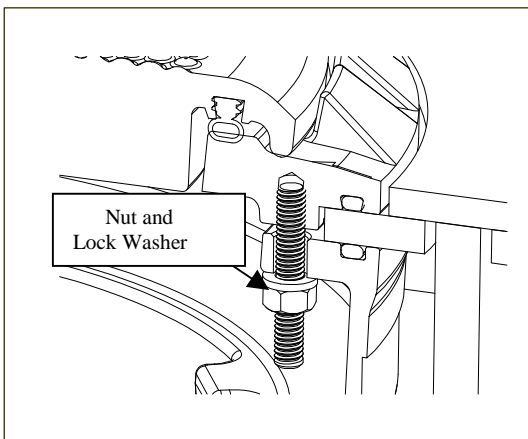


Figure 7

Install the spill bucket covers.

(Optional): Install the product identification disc on the spill bucket cover and multi-port cover in the I.D. disc recess.

Cover the multi-port perimeter ring and cover with plastic to prevent concrete from settling in the drainage areas.

It is required that the perimeter ring and skirt assembly, and the multi-port cover be set as an assembled unit, with the bolts engaged. Failure to engage the bolts may result in the distortion of the ring and improper fit of the ring to cover after the concrete is poured.

When pouring the concrete, hand shovel or trowel the concrete around the multi-port assembly to prevent the unit from moving or shifting, which can cause alignment problems and future maintenance problems.

WARNING: Do not stand on the unit before the concrete has set up. Standing on the unit may result in a cracked unit, line, or tank fitting.

It is recommended that the paved contours around

POMECO covers be adequately sloped to direct water flow away from the cover and direct water runoff from adjacent areas away from POMECO covers. 1" minimum slope is recommended. (See Figure 8.)

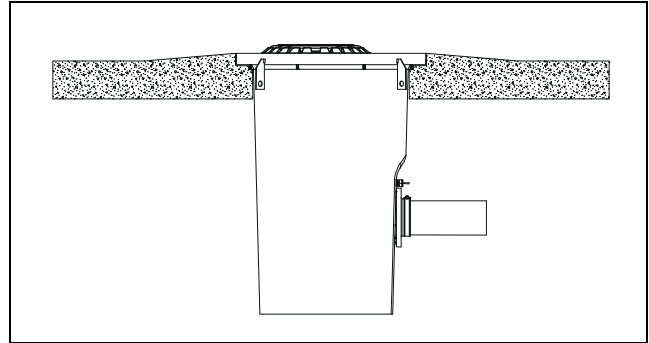


Figure 8

Remove the plastic after the concrete has set up.

After installation is complete, water test the multi-port fixture. The recommended water test procedures include:

- c) Spraying water on cover(s) for 5 to 10 minutes, using a commonly available watering device such as a lawn sprinkler.
- d) Standing water test, not to exceed ½" in water depth for a period of 5 to 10 minutes.

Any water in the unit is considered a failure. Replace the o-rings in accordance with these installation instructions and repeat test.

Operation and Maintenance:

Weekly: Inspect the interior of both the primary and secondary container for water or other contaminants. If water or contaminants are present, then they MUST be removed by the use of absorbent towels. Dispose of towels and debris safely and per all applicable local, state, and federal codes. Check that the cover is in good condition and properly identified. Replace the cover as necessary. Inspect the bucket walls for cracks, bulges, or holes. If any exist, have that spill container barricaded and contact maintenance personnel immediately for repairs.

Semiannually: Follow all state and local required hydrostatic or vacuum testing on the primary bucket and secondary basin. Inspect and clean the drain valve screen. Remove accumulated dirt and grit. If the drain valve screen becomes clogged, remove the valve, soak in water and use high-pressure air to clean. Reinstall the drain valve to its proper position and test the valve per California ARB TP201-1C Test Procedure. If problems persist, replace the drain valve with P/N 1DK-2100-EVR (specified torque 11.5 ft-lbs min to 13.5 ft-lbs max, 5/16-18 UN thread).

Testing Spill Containers

Use California ARB TP201-1C or TP201-1D Test Procedures: These Test Procedures will check the seals between the drain valve, nipple and rotatable adapter. To test the spill containers base and bellows fill the container with water. A drop in the water level of 1/16" or greater after one hour means that a leak exists. To determine

where the leak is, look for a steady stream of bubbles coming from one of the joints or water leaking on the outside of the bucket. **NOTE:** Do not drain the water into the UST after the test is complete. Water must be disposed of per local requirements for hazardous waste. If the leak cannot be corrected the spill container should be replaced with another.

Important: Leave these instructions with Station Operator as per CARB Requirements



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