Franklin Fueling Systems

# Below Grade Spill Containment Manholes

*705 - 5 Gallon  715 - 15 Gallon  725 - 25 Gallon*

## Installation Instructions

**Warning** **Application and use of this product should be in compliance with local, state, and federal regulations. Selection of this product should be based on physical specifications, limitations, and compatibility with the environment and material to be handled. EBW makes no warranty of fitness for a particular use.**

| Manual # | Revision | Date | Changes from Previous Revision |
|---|---|---|---|
| F-1306 | 4 | Mar. 2012 | Removed reference to thread sealant branding. Removed obsolete Shallow Burial Sump |

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| Part No. | Size | Base | Drain | Replacement Drain Valve Kit | Fig. |
|---|---|---|---|---|---|
| 705-445-01 | 5 Gal. | Cast Iron | Cover Actuated Push Drain | 705-225-02 | A |
| 705-445-65 | 5 Gal. | Cast Iron | Cover Actuated Push Drain | 705-225-02 | A |
| 705-450-01 | 5 Gal. | Cast Iron | Auto-Drain | 705-120-01 | A |
| 705-455-01 | 5 Gal. | Cast Iron | Cover Actuated Push Drain | 705-225-02 | A |
| 705-457-01 | 5 Gal. | Cast Iron | Auto-Drain | 705-120-01 | A |
| 705-474-01 | 5 Gal. | Cast Iron | Pull to Push | 705-332-19 | A |
| 705-474-65 | 5 Gal. | Cast Iron | Pull to Push | 705-332-19 | A |
| 705-475-01 | 5 Gal. | Composite | Pull to Push | 705-337-01 | A |
| 705-475-65 | 5 Gal. | Composite | Pull to Push | 705-332-19 | A |
| 705-438-06 | 15 Gal. | Cast Iron | Auto-Drain | 705-120-01 | C |
| 715-446-01 | 15 Gal. | Cast Iron | Cover Actuated Push Drain | 705-225-01 | C |
| 715-446-65 | 15 Gal. | Cast Iron | Cover Actuated Push Drain | 705-225-01 | C |
| 715-456-01 | 15 Gal. | Cast Iron | Cover Actuated Push Drain | 705-225-01 | C |
| 715-474-01 | 15 Gal. | Cast Iron | Pull to Push | 705-332-19 | C |
| 715-474-65 | 15 Gal. | Cast Iron | Pull to Push | 705-332-19 | C |
| 715-475-01 | 15 Gal. | Composite | Pull to Push | 705-332-19 | C |
| 715-475-65 | 15 Gal. | Composite | Pull to Push | 705-332-19 | C |
| 725-447-01 | 25 Gal. | Cast Iron | Cover Actuated Push Drain | 705-225-03 | E |
| 725-474-01 | 25 Gal. | Cast Iron | Pull to Push | 705-332-19 | E |
| 725-475-01 | 25 Gal. | Composite | Pull to Push | 705-332-19 | E |
| 725-475-65 | 25 Gal. | Composite | Pull to Push | 705-332-19 | E |

**ARB approved EVR components listed on page 7.**

*The following items may be ordered separately:*
*Test Drain Kits (no drain) #90022 for models with pull to push drains and push drains.*

## Replacement Drain Valves for Models with Pull Drains

| Part # | Size | Below Grade or Grade Level |
|---|---|---|
| 705-336-01 | 5 Gal. | Below Grade & Grade Level |
| 705-336-02 | 15 Gal. | Below Grade & Grade Level |
| 705-336-03 | 25 Gal. | Below Grade |
| 705-336-04 | 25 Gal. | Below Grade & Grade Level |

Conversion Drain Valve Kit for Models with Push Drains Order Conversion Kit 705-332-99

## Notice For New York City Approval

### 715-474 Models

The 715-474 (15 Gallon) spill containment has been assigned the certificate of approval number (5021) by the New York City Fire Department, and its installation and use is subject to the following conditions and pursuant to 27-4015 of the New York City Bureau of Fire Prevention Code.

1. The installation and use of these Below Grade Spill Containment Manholes (Fill Boxes) shall comply with all applicable requirements of New York Fire Prevention Code, Fire Prevention Rules Building Code, 40 CFR Part 280.20 and 280.30 pertinent to 27-4065-F of New York City Fire Prevention Code.
2. Prior to use, all installations shall be subject to inspection by the Bureau of Fire Prevention which may result in added requirements being imposed.

# Installation Instructions

Before installing a spill container, coat all of the riser pipe threads with a thread sealant that is compatible with the product in that tank.

Install spill container by threading it onto the tank riser pipe until it is handtight. Do not use the upper cast iron ring to fully tighten the spill container. Tightening the tank using the upper cast iron ring can cause undue stress to the entire unit.

After handtightening, place a torque wrench assembly around the lower portion of the tank base and torque the spill bucket base on a riser pipe to 60 - 90 ft. lbs. torque using an EBW chain wrench (part #901-101-01) and a torque wrench with at least 100 ft. lbs. of torque range (due to an offset of chain and torque wrenches, actual torque wrench values will be 45 - 70 ft. lbs.). After an initial torque value is obtained, continue to thread the tank base onto the riser pipe until the drain is orientated to the riser low spot.

**Note:** All of the tank risers have some out-of-plumb characteristics due to slight tank tilts and rolls. To properly drain, the drain valve must be located at the low spot of the riser tilt. The riser low spot is the direction the riser pipe is leaning towards. This is easily obtained by placing a small amount of water in the bucket base and turning the bucket until the water runs to the drain valve.

If space is limited (i.e. a retrofit installation to a sawed out section of concrete):

1. Make sure that the inside riser pipe is removed.
2. Locate the fitting that the inside riser pipe threads into.
3. Coming down through the top of the unit, use a special socket wrench on the octagonal surface of the fitting to finish tightening it. Do not disassemble the unit.

**Note:** Use the Styrofoam Locator (part #705-417) for installation (see Figure B). Do not discard it. After installation is complete, remove the locator from the manhole.

## Check For Leaks

Every unit should be tested for leaks prior to, and after, pouring concrete. If this model comes with a drain, close it. If not, install a 90022 test drain kit. Fill the unit completely with water. If the test water level drops at all within one hour, then a leak exists (this is not an EVR test).

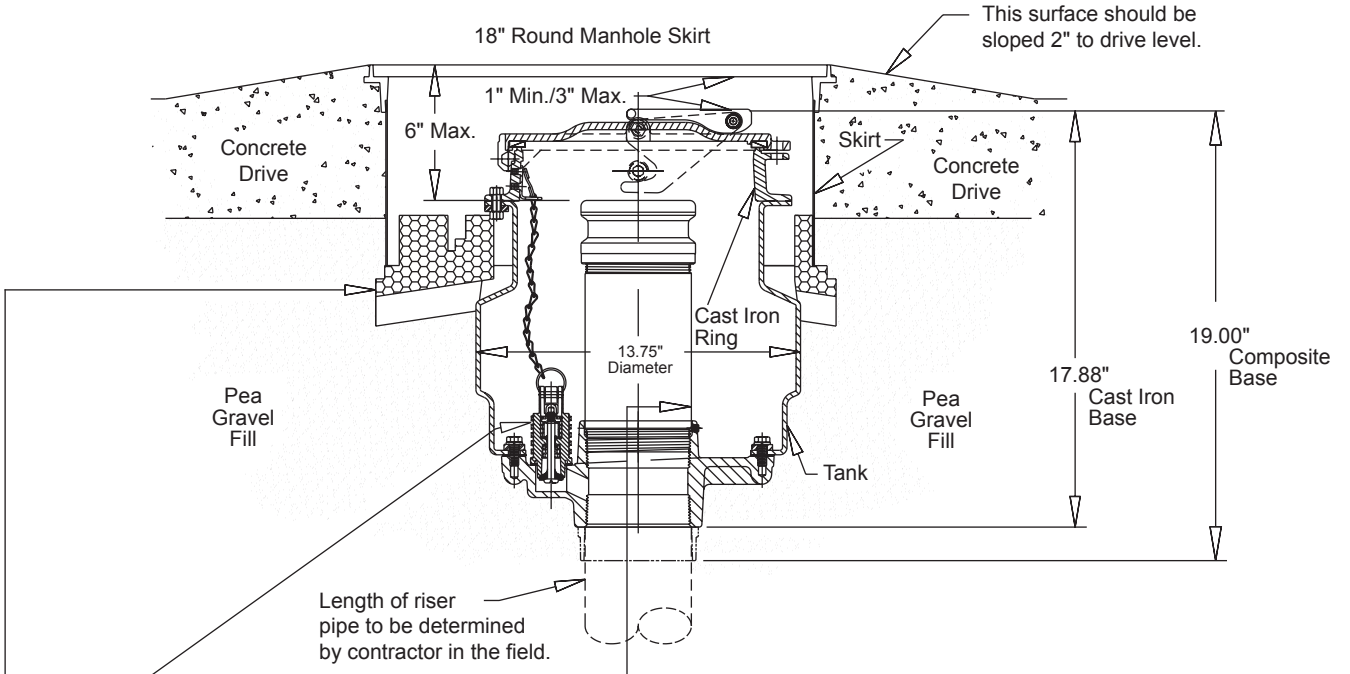
Check to see that the drain valve is seated properly. If not, then **pull** the drain valve several times on a **pull to push drain unit**. Replace the valve if it continues to leak.

If the unit continues to leak, the entire spill container must be removed from the riser pipe and replaced with another. **Re-test**.

After backfilling the area with pea gravel and pouring concrete, **re-test** to make sure that no damage occurred during installation.

# 5 Gallon Spill Containers

## Figure A




**Recommended Inside Riser Pipe Lengths for 5 Gallon Spill Containers**

**8 3/4"** - For conventional top and side seal adaptors (EBW 776 & 778)

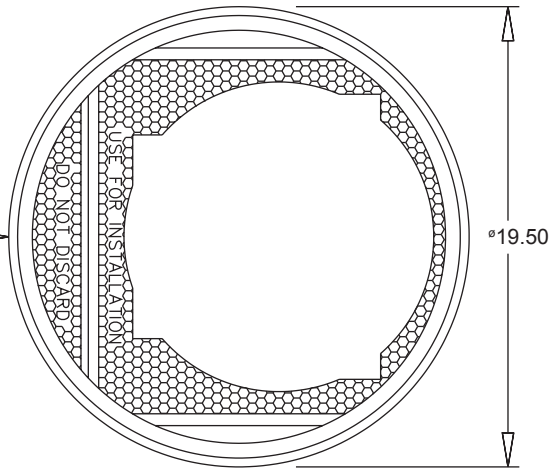
**7 3/4"** - For swivel type product adaptors and conventional coaxial adaptors (EBW 778 & 306)

**6 3/4"** - For swivel type poppeted vapor adaptors and self-sealing coaxial poppeted adaptors (EBW 300 & 306 CA)

Styrofoam Locator (part #705-417)

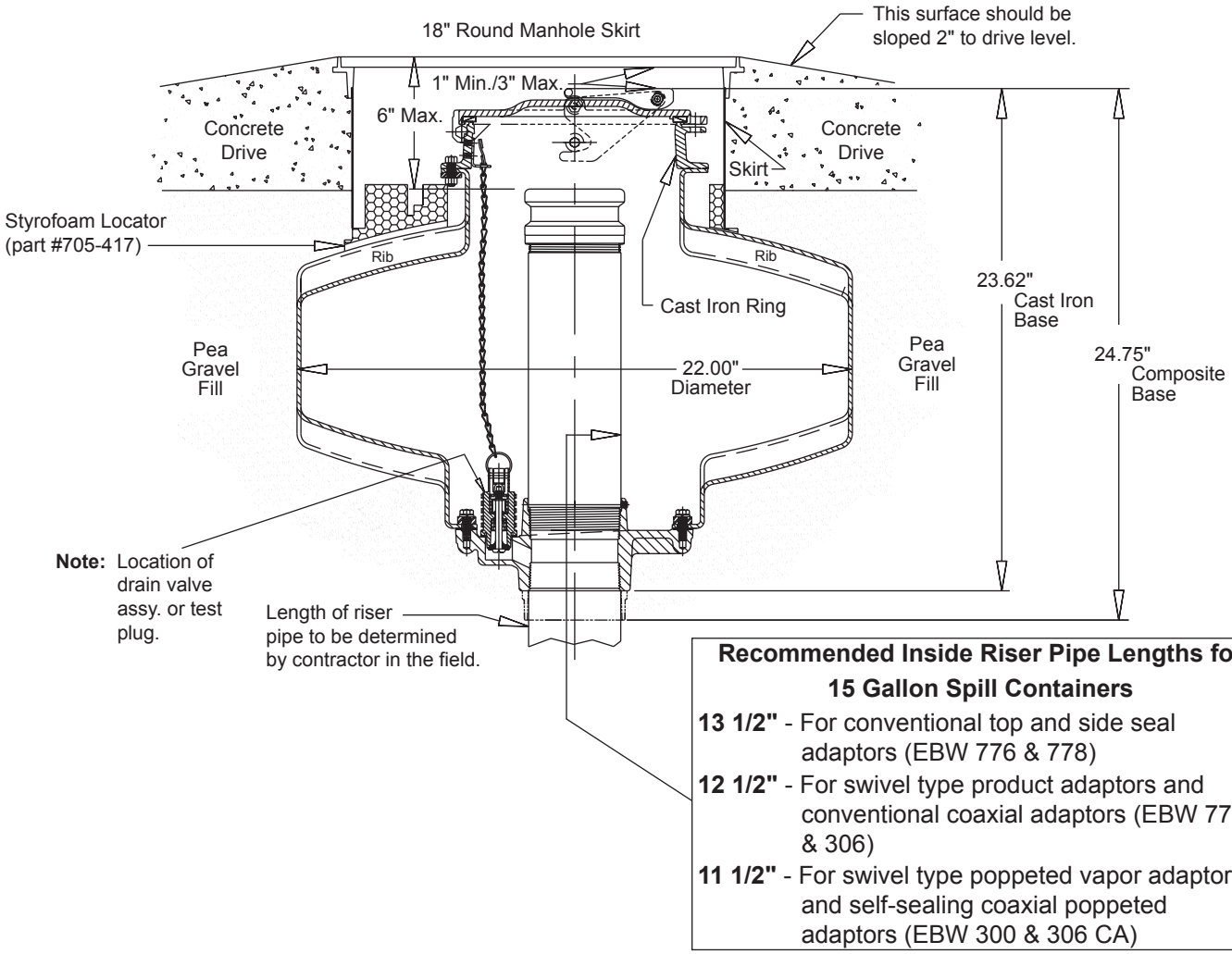
**Note:** Place the styrofoam locator ring between the tank and the skirt as shown.

## Figure B



# 15 Gallon Spill Containers

## Figure C




**Recommended Inside Riser Pipe Lengths for 15 Gallon Spill Containers**

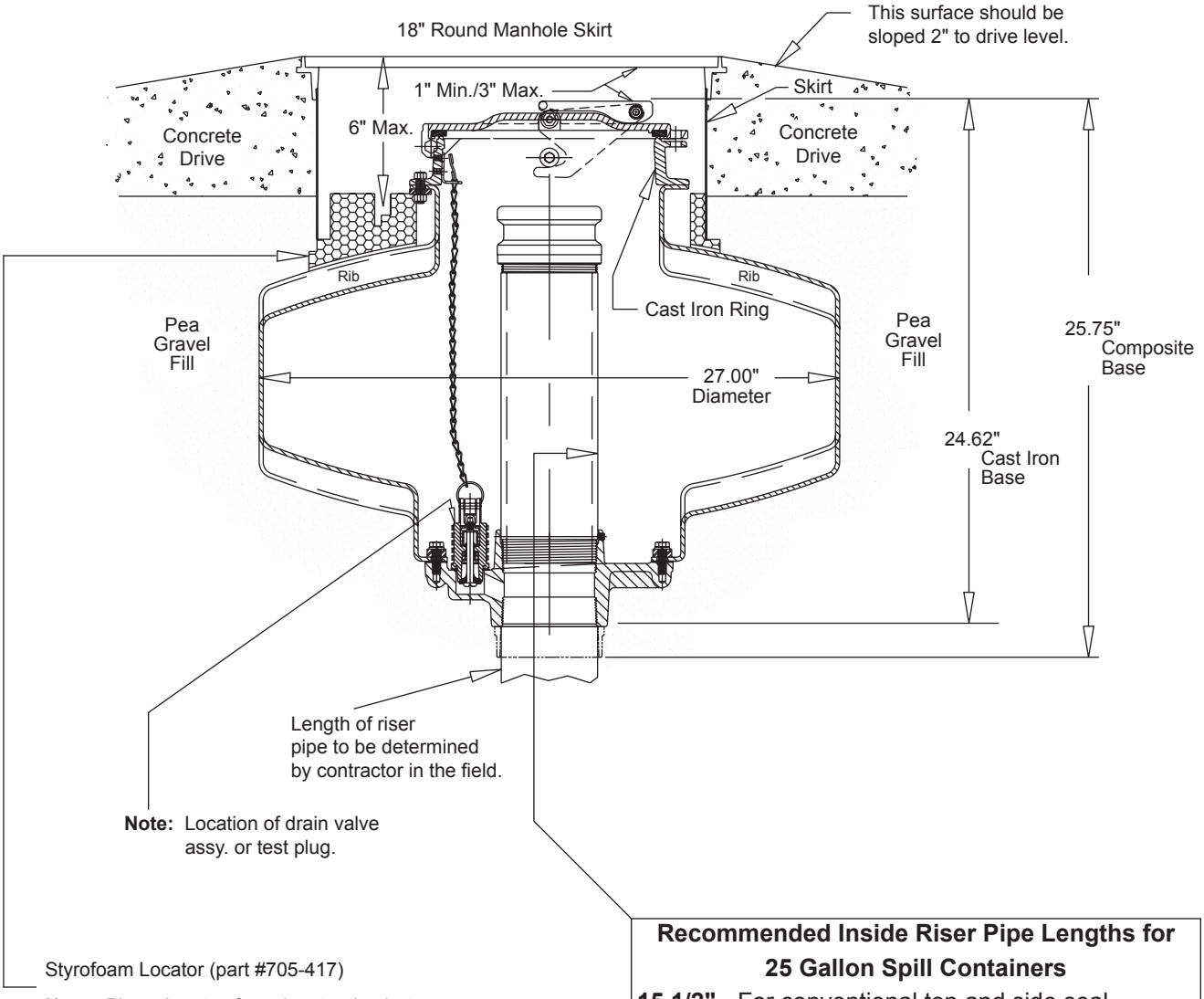
**13 1/2"** - For conventional top and side seal adaptors (EBW 776 & 778)

**12 1/2"** - For swivel type product adaptors and conventional coaxial adaptors (EBW 778 & 306)

**11 1/2"** - For swivel type poppeted vapor adaptors and self-sealing coaxial poppeted adaptors (EBW 300 & 306 CA)

# 25 Gallon Spill Containers

## Figure D




**Recommended Inside Riser Pipe Lengths for 25 Gallon Spill Containers**

**15 1/2"** - For conventional top and side seal adaptors (EBW 776 & 778)

**14 1/2"** - For swivel type product adaptors and conventional coaxial adaptors (EBW 778 & 306)

**13 1/2"** - For swivel type poppeted vapor adaptors and self-sealing coaxial poppeted adaptors (EBW 300 & 306 CA)

# C.A.R.B. Approved Below Grade Spill Containers

| Part No. | Size | Base | Drain | Replacement Drain Valve Kit | Fig. |
|---|---|---|---|---|---|
| 705-492-01 | 5 Gal. | Cast Iron | Pull to Push | 705-337-19 | A |
| 705-492-02 | 5 Gal. | Cast Iron | No Drain | | A |
| 705-493-01 | 5 Gal. | Composite | Pull to Push | 705-337-19 | A |
| 705-493-02 | 5 Gal. | Composite | No Drain | | A |
| 715-492-01 | 15 Gal. | Cast Iron | Pull to Push | 705-337-19 | C |
| 715-492-02 | 15 Gal. | Cast Iron | No Drain | | C |
| 715-493-01 | 15 Gal. | Composite | Pull to Push | 705-337-19 | C |
| 715-493-02 | 15 Gal. | Composite | No Drain | | C |
| 715-494-01 | 15 Gal. | Cast Iron | Pull to Push | 705-337-19 | C |
| 715-494-02 | 15 Gal. | Cast Iron | No Drain | | C |
| 715-495-01 | 15 Gal. | Composite | Pull to Push | 705-337-19 | C |
| 715-495-02 | 15 Gal. | Composite | No Drain | | C |
| 725-492-01 | 25 Gal. | Cast Iron | Pull to Push | 705-337-19 | E |
| 725-492-02 | 25 Gal. | Cast Iron | No Drain | | E |
| 725-493-01 | 25 Gal. | Composite | Pull to Push | 705-337-19 | E |
| 725-493-02 | 25 Gal. | Composite | No Drain | | E |

Drain Valve Leak Rate < 0.17 CFH @ 2.00" w.c

## Monthly Recommended Maintenance & Inspection Procedures

1. Clean/Remove any buildup of sand, gravel, or dirt from the manhole top cast flange. Buildup of material will prevent the manhole lid from sitting flat and diverting rain water. In addition to water infiltration, this can lead to premature lid failures and tripping hazards.
2. Inspect the spill container latching mechanism and make sure that it is operating properly.
3. Inspect the hinged cover gasket and replace it if necessary.
4. Inspect the spill container for the presence of liquid. If any is present, identify the material (water or fuel) and dispose of it using your preferred acceptable method (pump it out or drain it into the tank).
5. Inspect the spill container and the drain valve screen for any foreign material collecting in the bottom of the tank. Remove any large objects (leaves, rags, etc.) and wipe the bottom of the tank with a disposable rag.
6. Inspect the tank riser adapter and the dust cap for obvious damage. Verify that the gasket is in the dust cap and that the dust cap still securely latches onto the adapter.

## Post Installation Inspection Procedure

After installing these spill containers but prior to backfilling the excavation, EBW recommends that the tank system be checked for potential leaks. In CA, utilize TP-201.3, Static Pressure Test Procedure. In other areas, utilize this or a locally approved/accepted pressure test procedure. Should a leak be present, test the following with an acceptable leak check fluid: the tank and spill container piping joints, the drain valve poppet and gasket, the permanent drain blank plate gasket, and the adapter piping joint. **Repair all of the leaks prior to backfilling.**

# Composite Base Spill Containment

## Installation Instructions

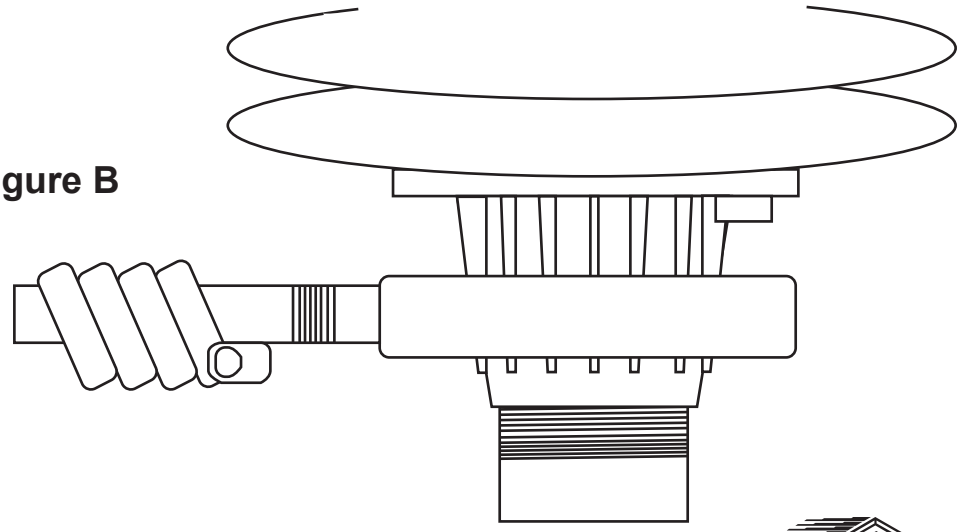
1. Before installing a spill containment manhole, apply PTFE thread sealant tape clockwise around the riser pipe threads.
2. Align the composite base on the riser pipe as shown in Figure A.
3. Rotate the spill containment counter clockwise until the threads mesh (you can feel the unit drop into place), then rotate it clockwise until it is handtight.

**A**

**Caution** **Do not use the upper cast iron ring to fully tighten the spill containment tank. Tightening the tank using the upper cast iron ring can cause undue stress to the entire unit.**

4. To finish tightening, refer to Figure B and check p. 3 for torque specifications.
5. Continue with the standard instructions for setting the top rim to driveway grade level.

**Figure B**



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