

Figure 2M



OPW Installation and Maintenance Instructions **OPW 61JSK-4400 Jack Screw Kit**

IMPORTANT: Please read these warnings and 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: Check to make sure the product 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.

61JSK-4400 Performance Specifications:

This OPW Jack Screw Kit is designed to lock an OPW 61SO-EVR Series Overfill Valve or 61T Drop Tube into an OPW 1-2100-EVR Series Spill Container Base below the outlet of the drain valve.

Torque Specification:

1/4-20 Screw, 3.0 ft-lbs minimum to 4.5 ft-lbs maximum.

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

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

**OPW NO. 61JSK-4400 JACK SCREW KIT
INSTALLATION INSTRUCTIONS:**

Step 1

Remove any old or dried pipe dope and metal burrs from top of riser pipe. Apply a gasoline resistant pipe dope on the threads of an OPW FSA-400 Face Seal Adapter and install onto the riser pipe. Torque to 125 ft-lbs min. to 250 ft-lbs max, 4"NPT using the OPW 61SA-TOOL.

Step 2:

Install the OPW 1-2100-EVR or POMEKO 500 Series Spill Container in accordance with the OPW Installation Instructions supplied with the product.

Step 3: (See Figure 2 & 2A)

Assemble and Install the OPW Drop Tube in accordance with the OPW Installation Instructions supplied with the product.

Step 4: (See Figure 3)

Insert the Jack Screw Lower Plate (plate without threads) completely into the spill container base on top of the drop tube flange with the screw pockets facing up.

Step 5: (See Figure 5)

Assemble screws into upper plate. Adjust the screws so that the top plate will be located just below the bottom of the threads in the spill container base when the assembly is inserted into the spill container. Apply the supplied thread sealant to the threads above the top plate on all three screws on the Jack Screw Top Assembly.

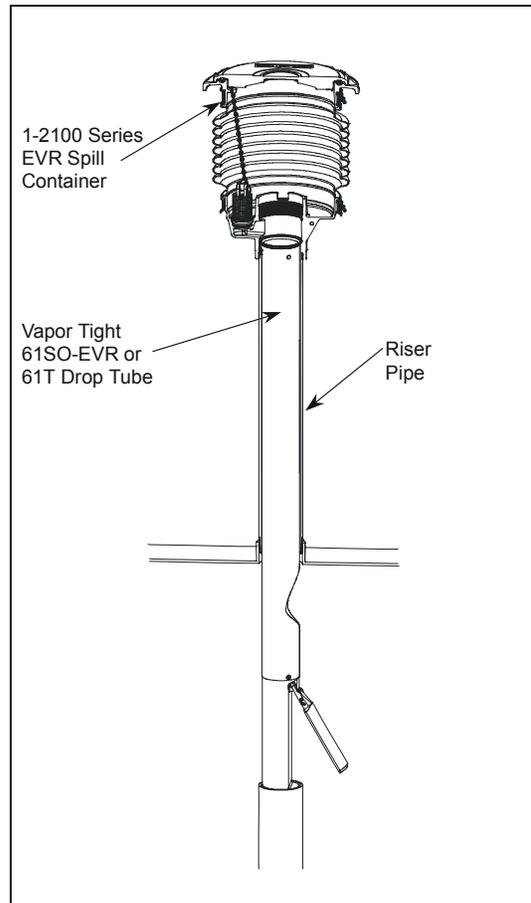


Figure 2a

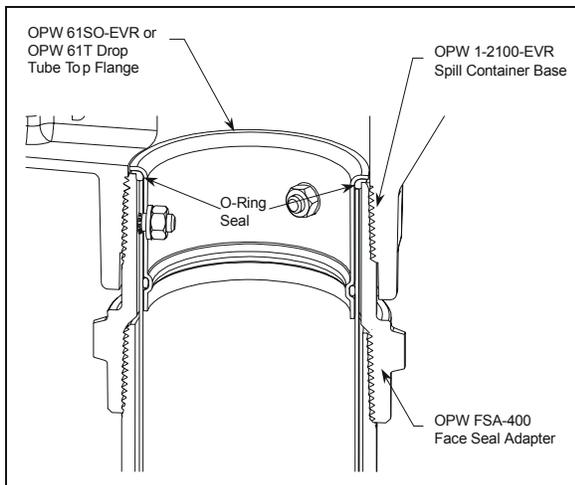


Figure 2

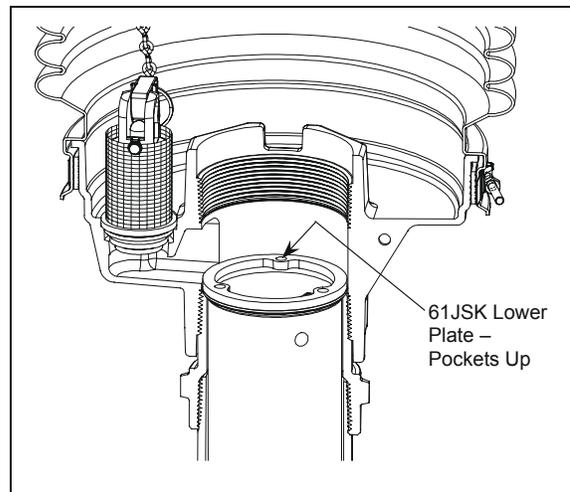


Figure 3

Step 6: (See Figure 5)

Install the Jack Screw Assembly into the spill container base. Make sure the bottoms of the three screws are seated in the pockets on the Jack Screw Lower Plate.

Step 7: (See Figure 6)

Apply a gasoline resistant pipe dope on the threads of a 4" nipple. Install the 4" nipple into the spill container and tighten securely. (Recommended torque, 4"NPT, 125 ft-lbs min. to 250 ft-lbs max.)

Note: The top plate should not be in contact with the nipple at this point. If the nipple hits the top plate while being tightened, remove the nipple, lower the top plate on the jack screw below the threads on the spill container, and then reinstall the nipple.

Step 8: (See Figure 7)

Using a long screwdriver, alternately and evenly tighten the three (3) screws on the Jack Screw Assembly until the Upper Plate contacts the bottom of the 4" nipple. Tighten the three (3) screws evenly and securely with a torque of 3.0 ft-lbs min. to 4.5 ft-lbs max to ensure that the drop tube flange is sealed securely to the riser pipe.

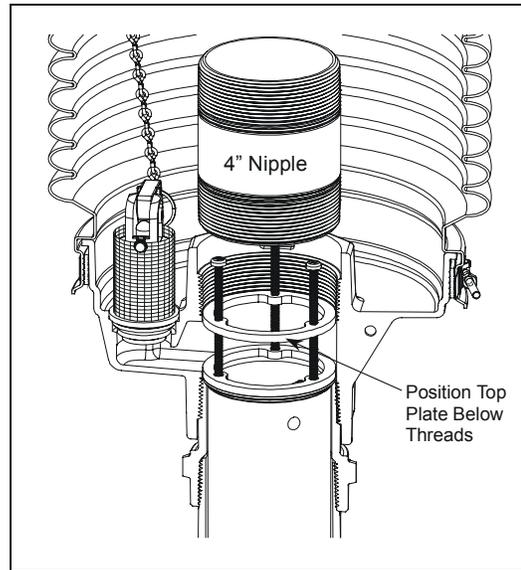


Figure 6

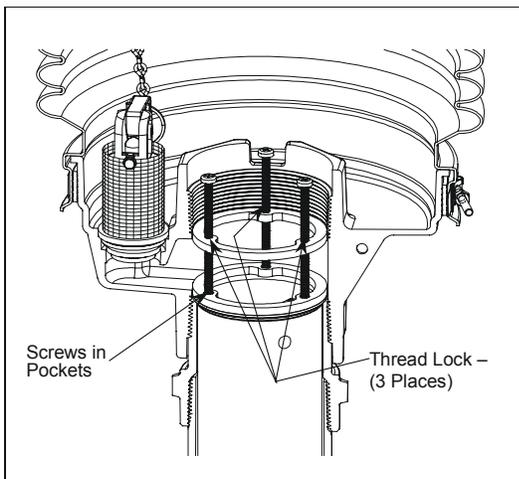


Figure 5

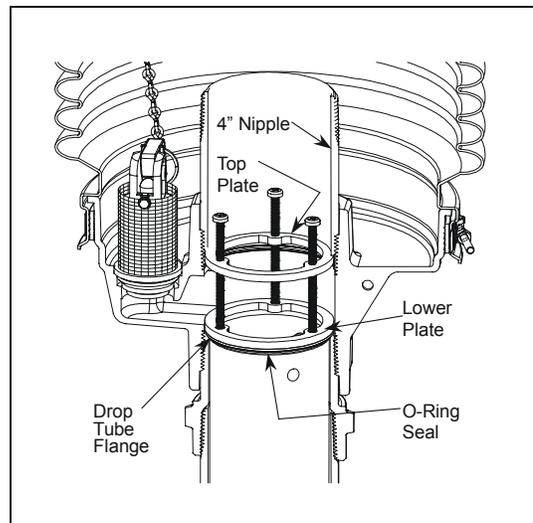


Figure 7

Step 9: (See figure 8)

Assembly of the Jack Screw Kit is now complete. Proceed to installation of the OPW 61SALP-EVR Rotatable Product Adaptor and OPW 634TT Cap in accordance with the OPW Installation Instructions supplied with the product.

Operation and Maintenance:

If a leak develops at the drop tube. Re-torque the (3) screws on the Jack Screw. (Torque value: 3.0 ft-lbs min. to 4.5 ft-lbs max.) If this does not correct the leak, check for burrs, clean the sealing surface on the FSA-400 and replace the o-ring on the drop tube.

NOTE: Loctite 242, thread locker, must be reapplied each time the screws are adjusted.

Important: Leave these instructions with Station Operator.

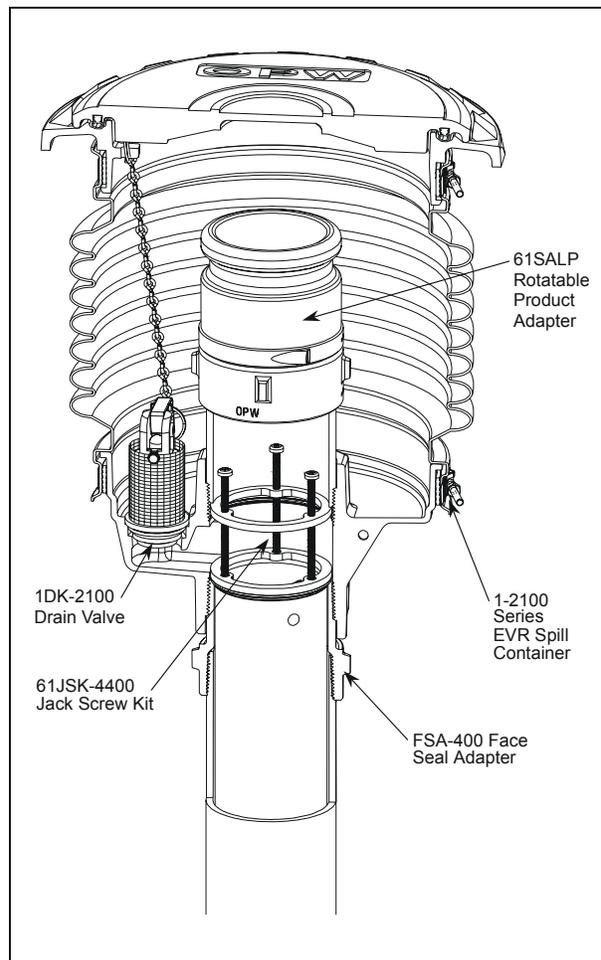


Figure 8



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Figure 2N



POMECO Installation and Maintenance Instructions 6111-1400 Tank Bottom Protector

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: The POMECO Tank Bottom Protector 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.

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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.

Tank Bottom Protector:

The POMECO Tank Bottom Protector is designed to protect the Underground Storage Tank from damage due to the tank measuring stick being dropped into the tank to measure the fluid level.

POMECO Tank Bottom Installation Instruction

1. Check the distance from the bottom of the fill tube to the bottom of the tank. Verify that this distance is in conformance with manufacturer's recommendations and Local Codes. Remove the drop tube from the tank.
2. Using a # 11 Drill (0.191") - Drill a hole into the fill tube about 1/2" above and 1" to 1 1/16" over from point "A" (see figures 1 and 2). Keep in mind that the **POMECO Tank Bottom Protector** must rest on the bottom of the tank.
3. Insert the **POMECO Tank Bottom Protector** and line up the # 11 hole in the sliding rod guide with the corresponding hole just drilled in the drop tube. Make sure that point "A" is clear for future measurements of the drop tube's length. (See figure 2)
4. Attach the **POMECO Tank Bottom Protector** with the pop rivet supplied. Drill two more # 11 holes into the drop tube and sliding rod guide at the same time. Install supplied pop rivets into new holes.
5. Check to ensure that the **POMECO Tank Bottom Protector** slides up and down without binding.
6. Reinstall fill tube into the tank.

*Check local codes and regulation for proper dimension

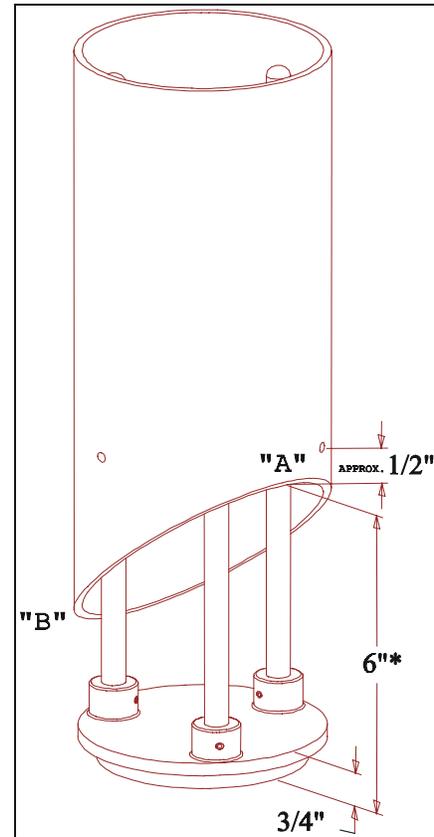


Figure 1

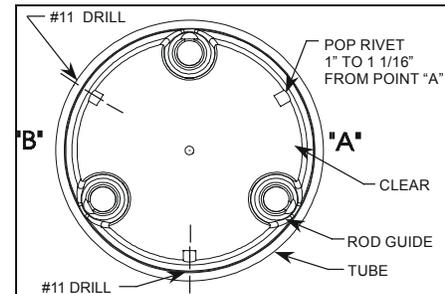


Figure 2



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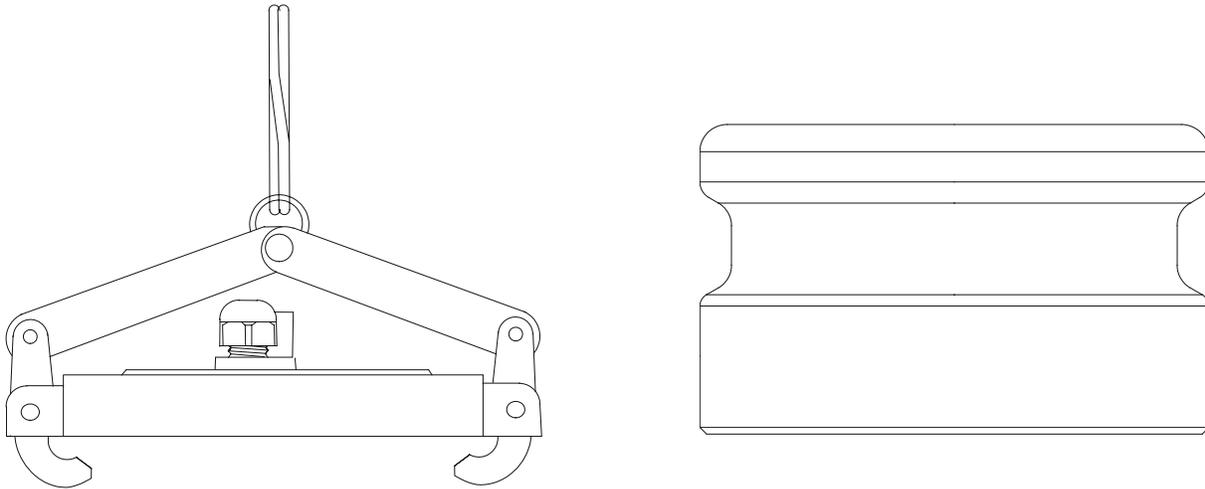
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Figure 20

Morrison Brothers 305XPA Series Tank Monitoring Cap and Ring Kit



305XP Series Cap

Installation Instructions –

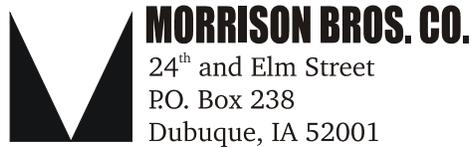
1. Apply a fuel resistant, non-hardening, anti-seize sealant (not adhesive) to cable connector threads. Follow manufacturer's instructions for installation of monitoring system.
2. Set cap on adapter
3. Push down on lever arms.

305 Series Adapter

Installation Instructions –

1. Apply a fuel resistant, non-hardening, anti-seize sealant (not adhesive) to body threads.
2. Thread body on to riser pipe. Torque to 23-26 ft.-lb.

Warranty- All Morrison products are thoroughly tested before shipment and only material found to be defective in manufacture will be replaced. Claims must be made within one year from date of invoice. Morrison Bros. Co. will not allow claims for labor of consequential damage resulting from purchase, installation, or misapplication for the product



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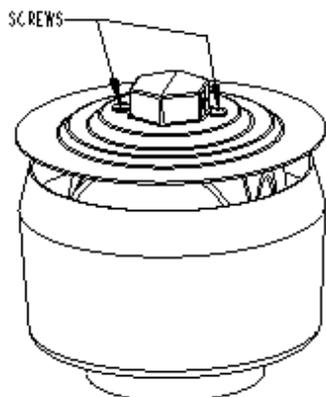
Figure 2P

Husky Model 4885 2-Inch Threaded Pressure/Vacuum Vent Valve

PRESSURE/VACUUM VENT MODEL 4885 INSTALLATION AND MAINTENANCE INSTRUCTIONS

INSTALLATION

The P/V Vent is designed to fit on top of a 2" vent pipe. Remove the P/V Vent from the carton and visually inspect for any shipping damage.



Model 4885 Thread-On P/V Vent

Apply fuel resistant pipe sealant to the threads on the 2" vent stack. Screw the P/V Vent onto the vent stack and tighten to a range of 20 to 50 ft-lbs with a suitable wrench. DO NOT OVER-TIGHTEN. Periodic maintenance is recommended (see below).

MAINTENANCE

Annually inspect the P/V Vent valve for foreign objects without removing the P/V Vent valve from the vent pipe by using the following procedure:

1. Remove the screws that hold the top cover on.
2. Remove any debris that might be sitting inside the lower cover.
3. Check the drain holes in the lower cover for blockage.
4. The two (2) screens should not be removed.
5. Reinstall the top cover and retaining screws.
6. Tighten the screws firmly.

NOTE: DO NOT ALTER OR COVER THE P/V VENT



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PRESSURE VACUUM VENT WARRANTY INFORMATION

Husky Corporation will, at its option, repair, replace, or credit the purchase price of any Husky manufactured Pressure Vacuum Vent which proves upon examination by Husky, to be defective in material and/or workmanship within EIGHTEEN (18) MONTHS from the date of shipment for any Husky Pressure Vacuum Vent, except as otherwise provided herein. For all other Husky manufactured product, see Husky Form No. PS2002-Term (4/15/02) at www.husky.com.

The warranty period on repaired or replacement product is only for the remainder of the warranty period. Buyer must return the products to Husky, transportation charges prepaid. This Warranty does not apply to equipment or parts which have been installed improperly, damaged by misuse, improper operation or maintenance, or which are altered or repaired in any way other than by Husky.

The Warranty provisions contained herein apply ONLY to original purchasers and subsequent commercial purchasers within the warranty period who use the equipment for commercial or industrial purposes. THERE ARE NO OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, AND ANY OTHER SUCH WARRANTIES ARE HEREBY SPECIFICALLY DISCLAIMED.

Husky assumes NO LIABILITY for labor charges or other costs incurred by Buyer incidental to the service, adjustment, repair, return, removal or replacement of products. HUSKY ASSUMES NO LIABILITY FOR ANY INCIDENTAL, CONSEQUENTIAL, OR OTHER DAMAGES UNDER ANY WARRANTY, EXPRESS OR IMPLIED, AND ALL SUCH LIABILITY IS HEREBY EXPRESSLY EXCLUDED.

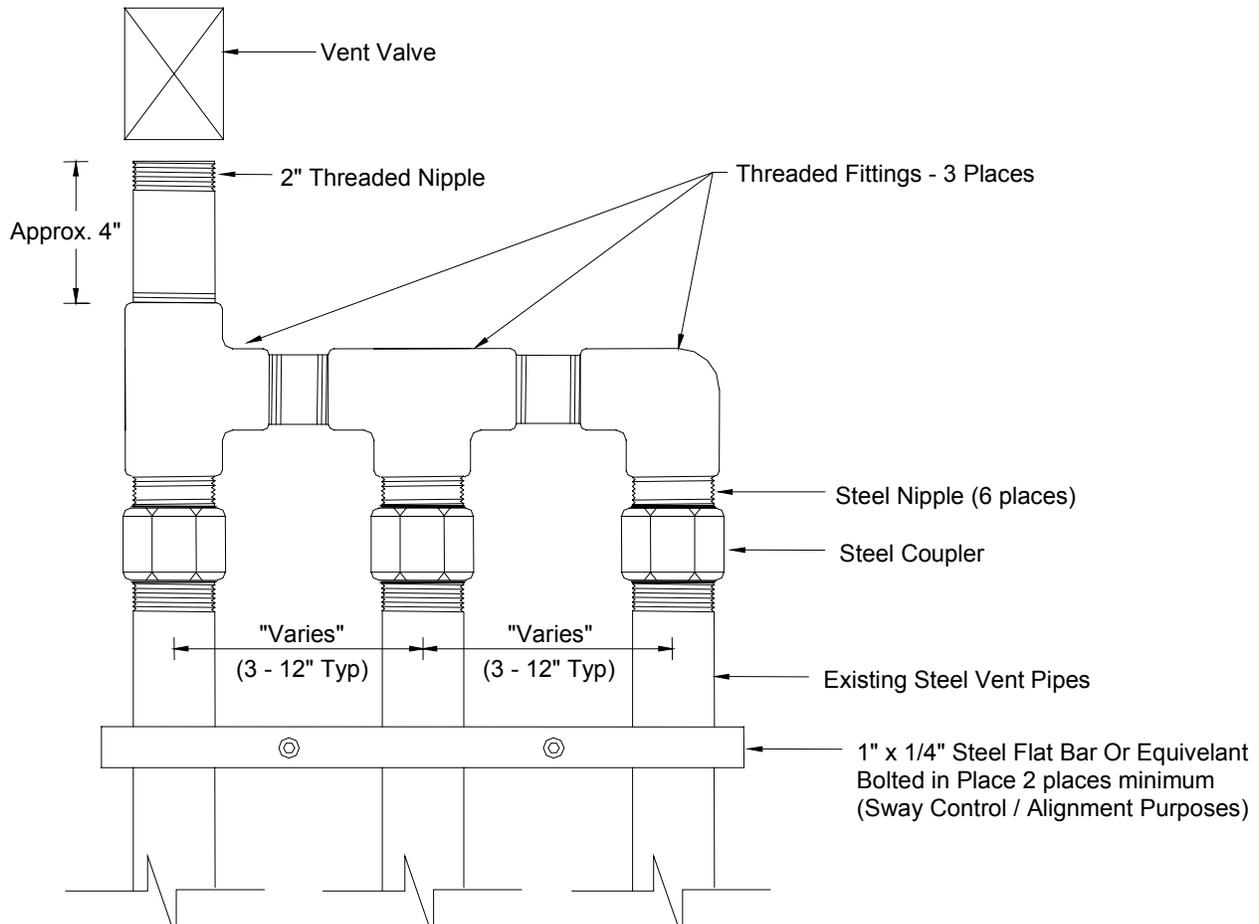
Husky reserves the right to change or improve the design of any Husky fuel dispensing equipment without assuming any obligations to modify any fuel dispensing equipment previously manufactured.



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Figure 2Q

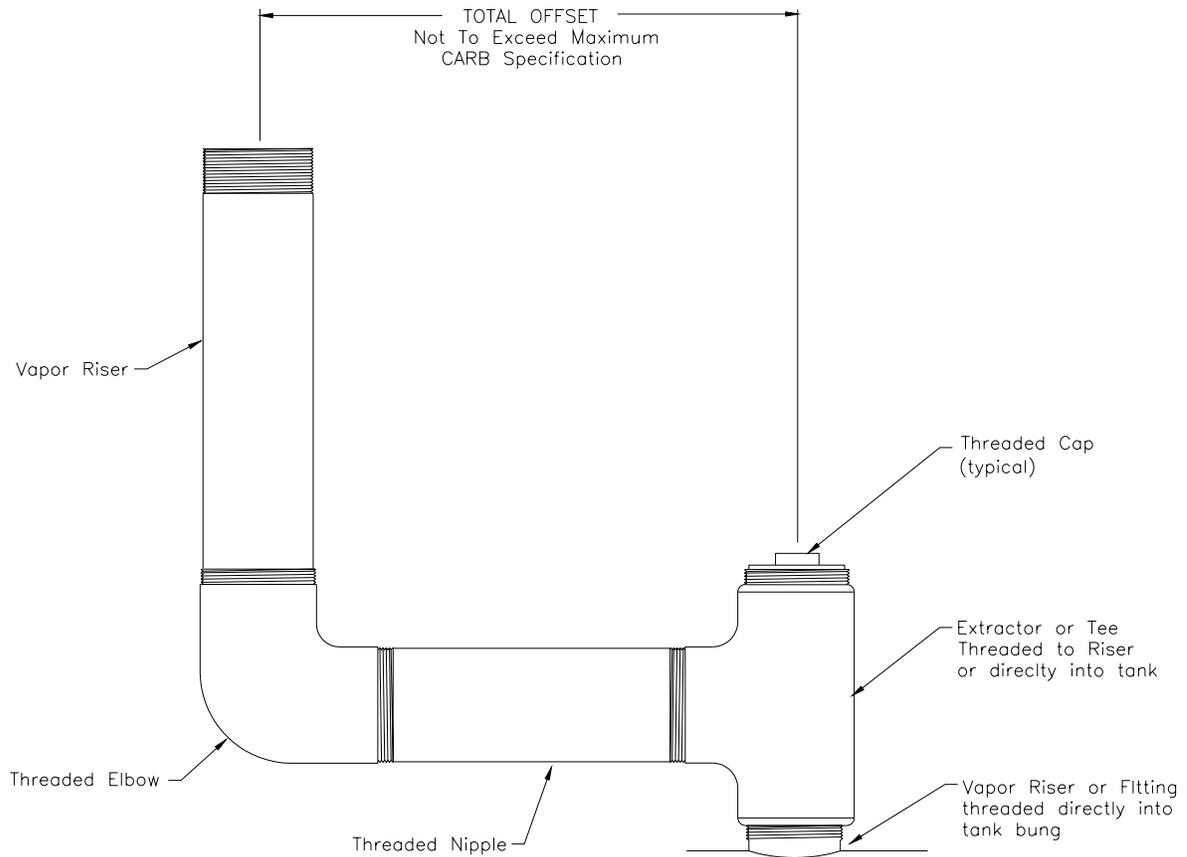
Typical Vent Pipe Manifold



Note: This figure represents one instance where three vent pipes have been manifolded into one single outlet. A maximum number of Pressure/Vacuum Vent Valves, not exceeding an additive leakrate of 0.17 CFH at 2.00 inches H₂O, shall be used on any single GDF. For example, three valves with an identified leakrate of 0.05 CFH at 2.00 inches H₂O equate to an additive leak rate of 0.15 CFH. The leakrate of the valve shall be clearly identified by the manufacturer.

Figure 2Q

Typical Vapor Recovery Riser Offset



Note: This figure represents one instance where a vapor recovery riser has been offset in order to construct a two-point Phase I vapor recovery system. The above figure illustrates an offset using a 90-degree elbow. However, in some instances, elbows less than 90 degrees may be used. All fittings and pipe nipples shall be 4-inch diameter similar to those of the spill container and rotatable Phase I adaptors in order to reduce back pressure during a gasoline delivery.

Figure 2R

Example of a GDF Phase I Maintenance Log

Date	Component	Maintenance Performed	Test Company or Contractor	Telephone	Tester Name