

Installation Instructions

Dispenser Pans

Pan Entry Fittings

IMPORTANT: Please read all warnings and follow the installation instructions completely and carefully.

Failure to do so will void all warranties and may cause product failure, or result in environmental contamination due to liquid leakage into the soil, creating hazardous spill conditions

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

Dispenser Pans

FlexWorks Dispenser Pans are installed beneath fuel dispensers to provide access to and secondary containment of fuel dispensers and piping connections. FlexWorks Emergency Valve Stabilizer Bar Kits are required to install boss mounted emergency shut-off valves in FlexWorks Dispenser Pans. Use only OPW Fueling Containment System supplied hardware and components.

Mounting the Dispenser Pan in the Island Form

Dispenser sumps are typically mounted inside of permanent metal island forms on new installations or installed into enlarged pipe entry openings under existing dispensers. In either case, the pan must be mounted so that the top of the sump mounting frame is flush with the finished concrete surface of the island. The pan must be secured in the island form prior to backfilling and concrete pouring. Brackets formed into the sides and ends of the pan mounting frame can be used to mount the pan in the island form. The pan can be supported by attaching the brackets to the top of permanent support bars inside the island form or by attaching the brackets to the bottom of 2x4's spanning the top of the island form.

Step #1 (See Figure 1)

Attach a boss mounted emergency shut-off valve to the valve mounting plate using the three (3) flat-head Allen screws provided. Tighten securely. (Plate and screws supplied in stabilizer bar kit). Thread a flex connector (or riser pipe) into the bottom of the emergency shut-off valve. The riser pipe length should be sized so that the emergency shut-off valve shear groove is flush with the island finish grade.

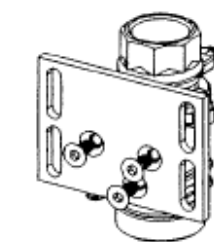


Figure 1

Step #2 (See Figure 3A)

Install the provided concrete anchor bolts in the set of holes in the pan mounting frame that match the footprint of the dispenser to be installed (**Note: Make sure bolts are in correct holes before pouring concrete.**)

Step #3 (See Figure 3A/3B/3C)

Install the necessary FlexWorks Pan Entry Fitting and conduit entry fittings into the dispenser pan base at the proper locations. The location of each pan entry fitting should correspond with the product inlet locations for the dispenser that is to be installed.

3A - Attach Drilling Template to the pan base and drill out the bolt pattern for the pan entry fitting.

3B - Drill out the opening for the pan entry fitting using a 3" hole saw.

3C - Install the pan entry fitting on the bottom of pan by inserting the studs through the bolt holes. From the inside of the pan, install the flange ring and nuts over the studs with the raised lip facing away from the pan base. Tighten all nuts to 60 in lbs. max with a 7/16" nut driver. Attach the appropriate boot to the entry fitting by tightening the lower hose clamp.

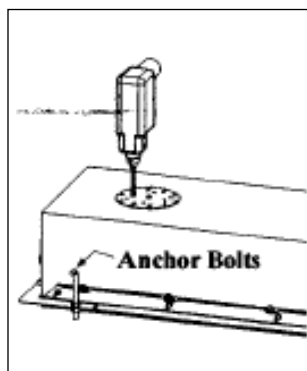


Figure 3A

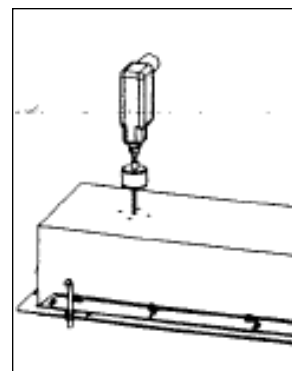


Figure 3B

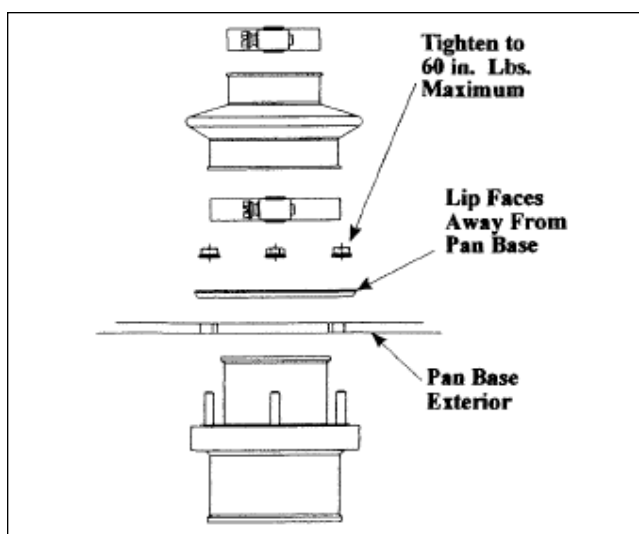


Figure 3C

Step #4 (See Figure 4)

Insert the spring loaded clamp nuts into dispenser side struts and rotate into position. Four (4) clamp nuts are used for each stabilizer bar (Clamp nuts come in stabilizer bar kit).

Step #5 (See Figure 5)

Install the FlexWorks emergency valve stabilizer bars to the side struts in the dispenser pan. Loosely attach the appropriate FlexWorks stabilizer bars to the side struts by fastening the bolts complete with lock washers to the clamp nuts previously installed in the side struts. Shims are provided to insert into the gap between the bar and the side struts if necessary (Bolts, lock washers, shims come in stabilizer bar kit).

Step #6 (See Figure 6A/6B)

Insert the flex connector (or riser pipe) and shear valve assembly into the dispenser pan and down through the pan entry fitting. Attach the emergency shut-off valve plate to the stabilizer bar using two (2) U-bolts, washers, and lock washers. Follow the emergency shut-off valve mounting instructions to ensure proper valve positioning. Adjust entire assembly as necessary and then secure all stabilizer bar and shear valve mounting hardware (Stabilizer bar, U-bolts, washers, and lock washers are supplied in stabilizer bar kit). Tighten upper clamp to seal boot against the flex connector hex (or riser pipe).

Step #7 (See Figure 7)

Before making final piping connections, install a FlexWorks Flexible Isolation Jacket. The Flexible Isolation Jacket clamps to the bottom cuff on the pan entry fitting and to a secondary containment pipe or the other end of a flex connector.

Leak Testing

After all connections are made, fill the pan with water. A drop in the water level within 1 hour indicates a leak that must be corrected before backfilling.

Backfilling

Rounded pea gravel with a minimum diameter of 1/8" and a maximum diameter of 3/4" should be used for backfill around FlexWorks Dispenser Sumps

Maintenance

FlexWorks pans are designed to provide secondary containment of dispensers and piping connections. All pans should be regularly checked for damage, leaks, and the presence of petroleum products. Third party approved liquid sensors should be installed in every pan. Any liquid present in the pan should be promptly removed and disposed of properly.

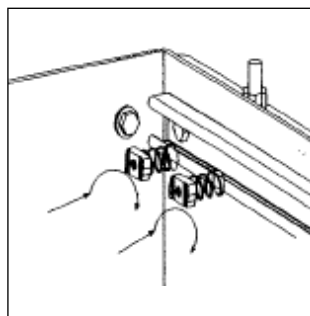


Figure 4

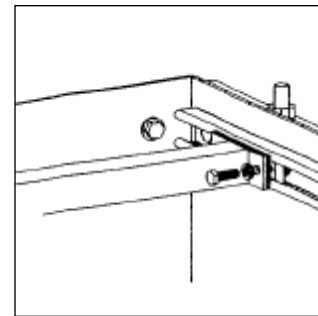


Figure 5

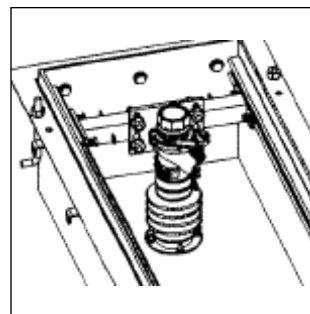


Figure 6A

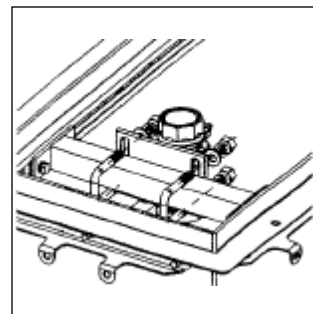


Figure 6B

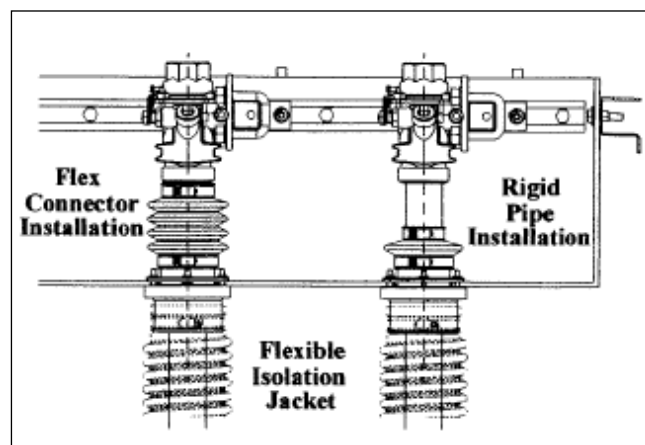


Figure 7

IMPORTANT INFORMATION - FOLLOW ALL INSTRUCTIONS

Please contact your OPW-FCS sales representative or OPW-FCS customer service representative at 1-800-422-2525 for OPW-FCS products installation procedures. All OPW-FCS literature including installation instruction sheets and manuals can be accessed from the OPW-FCS website at: www.opwfcs.com.

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Notice: OPW-FCS products must be used in compliance with applicable federal, state, provincial 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. OPW-FCS makes no warranty of fitness for a particular use. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials and specifications are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation. For complete OPW-FCS warranty information, visit our web site at www.opwfcs.com.