

RSC Series Conduitless Entry Dispenser Sump Installation

IMPORTANT: Please read all warnings and follow the installation instructions completely and carefully. Failure to do so may cause failure, 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 explosion, causing personal injury and property damage. Be sure that the working area is free from such hazards, and always use proper precautions

Step#1: Trimming Dispenser Sump Chimney

Determine the elevation of grade and dispenser island forms. If necessary, adjust the dispenser sump frame to account for the elevation differences. Simply, remove the mounting hardware installed along the side of j-channel. Carefully trim the dispenser sump chimney to the required height accounting for a 1" rainlip if required. Install the frame onto trimmed dispenser sump with the existing mounting hardware.

Step #2: Mount Sump in Island Form

Place dispenser sump into island form such that the top of the J-channel is flush with the finished concrete surface. If sump has a rain lip, it should extend upward 1" above finished concrete. Secure sump frame to the island form.

Step #3: Install Penetration Fittings

Determine the pipe entry locations. Piping entries are generally located as close to the bottom of the dispenser sump as possible. However, to maintain the required piping slop, you will have to raise the penetration higher in the sumps, the further you are from the UST supplying fuel to the dispenser. Use the center line of the sump along with the dispenser footprint provided by the dispenser manufacturer to determine the horizontal location of the penetrations. Install penetration fittings according to the manufacture's installation instructions.

Step#4: Prepare Shear Valve

Attach a boss mounted emergency shut off valve to the valve mounting plate provided with the stabilizer bar kit using (3) counter-sunk cap screws.

Step #5: Pre-Assemble Riser

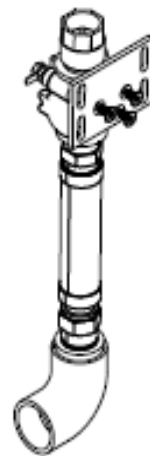
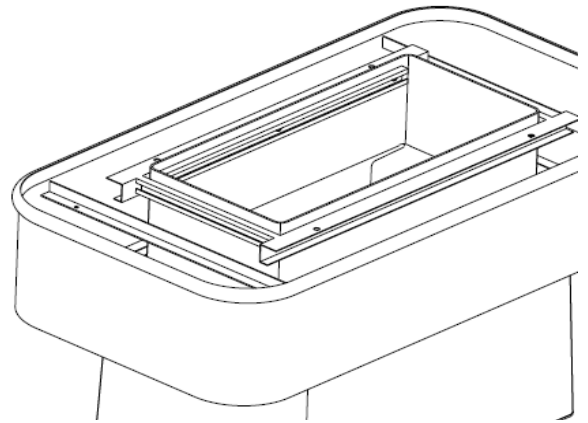
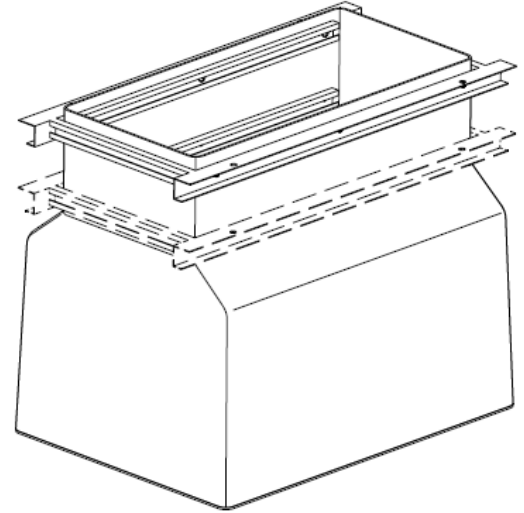
Determine the proper length riser pipe (or flex connector) that will be required and thread it into the bottom of the emergency shut-off valve. Attach either a 90-degree elbow or a tee to the other end.

Step #6: Connect Underground Plumbing

Permanently install underground piping through the penetration fittings and connect to the elbow or tee per the pipe manufacturer's installation instructions and proceeding government regulations.

Step #7: Install Shear Valve Stabilizer Bar

Insert spring-loaded clamp nuts into the dispenser side struts and rotate into position. Lower the stabilizer bar between the side struts of the dispenser sump. Loosely attach the bars to the spring nuts using the provided bolts and washers. Move stabilizer bar into position. Check to ensure spring nuts are properly inserted into the side strut and tighten.



Installation Instructions Continued.....

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Step #8: Attach the Emergency Shut-Off Valve

Place the riser with the emergency shut-off valve plate against the stabilizer bar. Using the provided (2) U-bolts, washers and nuts, loosely, mount the emergency valve to the stabilizer bar. Follow the manufacturer of the emergency shut-off valve instructions to ensure proper valve positioning. Adjust Assembly as necessary and tighten securely.

Step #9: Installing Anchor Bolts

Install the provided anchor bolts in the set of holes of the mounting frame that match your particular dispenser to be installed. (Make sure bolts are in correct holes before pouring concrete.)

Step #10: Installing Conduit

Conduit is installed in the recessed area on the end of the dispenser sump without penetrating the sump wall. Using a standard conduit pipe clamp, attach the conduit to the unistrut on the end of the mounting frame.

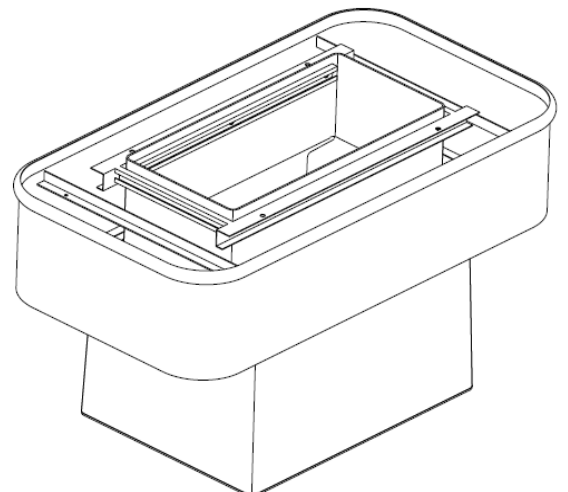
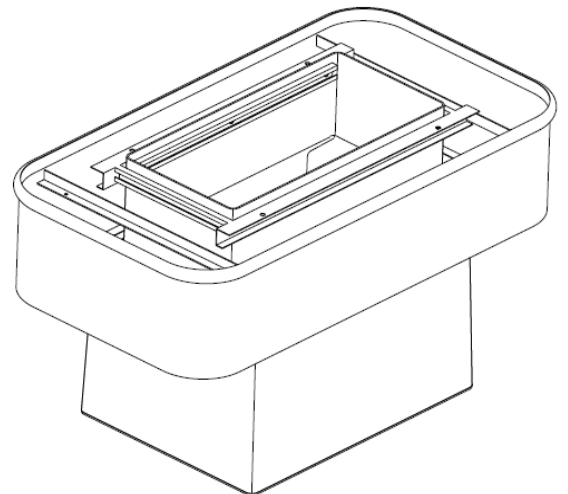
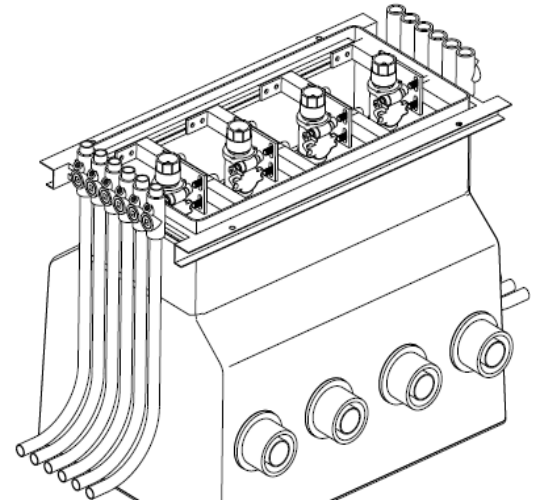
Step #11: Leak Testing

After all connections have been made, fill the sump with water and mark the water level. After 8 hours, check that the water level has not changed. Also check the outside of the sump for any visual leaks through the sump laminate or around the penetration fitting. If a leak is found, remove the water and dry the area before repairing. Repair as needed. After repair has fully cured, fill the sump with water and re-test.

Step #12: Backfilling

Backfill the area surrounding the dispenser sump with rounded pea gravel with a minimum diameter of 1/8" and a maximum diameter of 3/4". Prevent sump distortion or damage by avoiding to dump pea gravel directly onto the dispenser sumps when backfilling.

MAINTENANCE: *All dispenser sumps should be checked regularly for the presence of water or fuel products. Any liquid present in the sump should be promptly removed and disposed of properly. If liquid is found in the sump, prompt action should be taken to repair the leak and re-test the equipment for integrity.*



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