

RSA SERIES CONDUITLESS ENTRY DISPENSER SUMP



IMPORTANT

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

1 Trimming Dispenser Sump Chimney

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

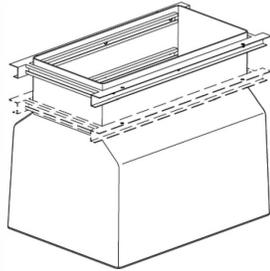


FIGURE 1

2 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 slope, 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 manufacturer's installation instructions. See FIGURE 2.

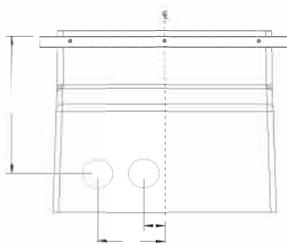


FIGURE 2

3 Mount Sump in Island Form

Place dispenser sump into island form such that top of the J-channel is flush with finished concrete surface. If sump has a rain lip, it should extend upward 1" above finished concrete. Secure sump frame to the island form. See FIGURE 3.

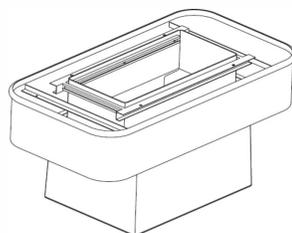


FIGURE 3

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. See FIGURE 4.

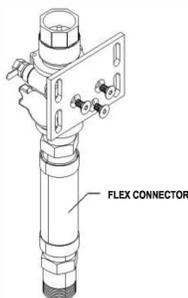


FIGURE 4

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. See FIGURE 4.

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 government regulations.

7 Install Shear Valve Stabilizer Bar

Insert spring nuts into the unistrut on the side of the dispenser and rotate into position. Lower the stabilizer bar between the unistrut on 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 unistrut and tighten. See FIGURE 5.

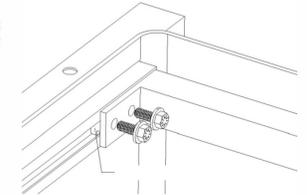


FIGURE 5

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. See FIGURE 6.

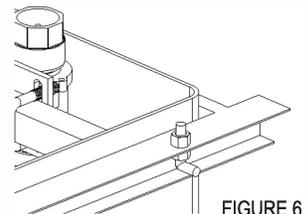


FIGURE 6

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. **IMPORTANT: Make sure bolts are in correct holes before pouring concrete.**

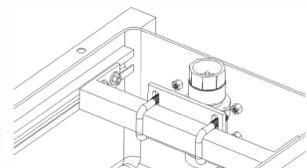


FIGURE 7

10 Installing Conduit

Conduit is installed using the unistrut 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. See FIGURE 8.

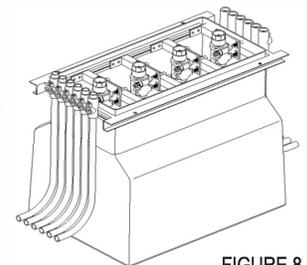


FIGURE 8

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.



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.

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.

If liquid is found in the sump, prompt action should be taken to repair the leak and re-test the equipment for integrity.