

# INSTALLATION INSTRUCTIONS

## DOUBLE WALL FIBERGLASS SUMPS LIQUID MONITORED INTERSTICE FILLING PROCEDURE



### 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.

### Introduction

The purpose of double wall monitoring is to determine that both the inner and outer surfaces of a double wall sump system are perfectly intact and free of defects, cracks, or voids that could result in fuel leakage if product is released inside the containment sump.

### Components Overview

#### Materials Needed:

- PCI Double Wall Interstitial Liquid Fill Kit
- PCI Interstitial Liquid
- Compressed Air Source
- 5/16 nut driver
- Razor Knife
- Hose Clamps

### 1 Attach Ball Valve Assembly

Attach the poly tubing/ball valve assembly and Interstitial fill Manometer to the lowest Liquid Fill Port on the interior of the sump.

### 2 Attach Air-Powered Vacuum Pump

Attach the Air-Powered Vacuum Pump to the highest Vacuum Port on the sump. For multi-component sumps, these vacuum ports will be in found in multiple sump components. Ensure the ball valve is in the closed position.

### 3 Pour Interstitial Fluid

Pour the applicable quantity of interstitial fluid into a 5-gallon bucket (not shown). Insert the open end of the Fill Port poly tubing/ball valve assembly into the bucket of interstitial fluid—leave the ball valve closed.

### 4 Connect Air Supply

Connect an air supply to the Vacuum Pump. **DO NOT exceed 80 psi or damage may occur.** Allow the sump interstice to reach full vacuum.

### 5 Open the Ball Valve

Open the ball valve to the bucket of interstitial fluid, allowing the interstice to fill from the bottom up.

### 6 Add Liquid

Add liquid until the level reaches the Vacuum Port.

### 7 Close the Ball Valve

Close the ball valve to the interstitial fluid, and disconnect the vacuum.

### 8 Connect Poly Tubing

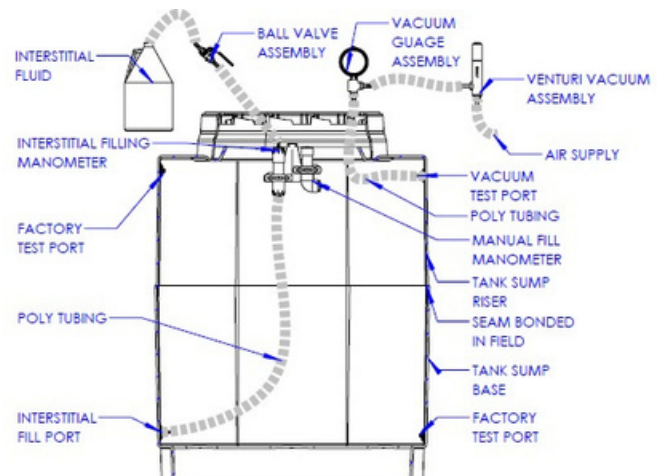
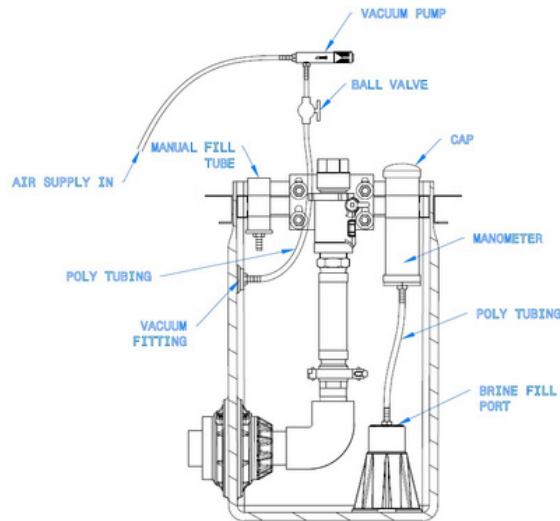
Connect the poly tubing from the Vacuum Port to the Manual fill Manometer (open tube). Disconnect the poly tubing/ball valve assembly from the Interstitial fluid fill Manometer (sensor tube).

### 9 Add Interstitial Fluid

Slowly add interstitial fluid to the Manual Fill Manometer until it reaches the same level as the Interstitial Manometer and mark the liquid level.

### Results

The Manual Fill Tube and Interstitial fluid Manometer should both have fluid in them and should be filled to the same level. If continuous monitoring is desired, a hydrostatic sensor can be installed in the interstitial fill manometer for monitoring purposes. If the sump integrity is compromised in any way, the interstitial liquid level will decrease, which can be visually observed in the Interstitial Manometer and Manual Fill Manometer.



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