

# **DOUBLE WALL FIBERGLASS SUMPS**

### LIQUID MONITORED INTERSTICE FILLING PROCEDURE

The purpose of double wall monitoring is to determine that both the inner and outer surfaces of a doublewall 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.

**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.

### **MATERIALS NEEDED:**

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

### FILLING PROCEDURE:

- Step 1: Attach the Manometer Assembly to the Liquid Fill Port on the interior of the double wall sump.
- Step 2: Attach the Air-Powered Vacuum Pump to the highest vacuum port on the sump assembly. For multi-component sumps, these vacuum ports will be in separate sump components. Make sure the ball valve is in the closed position.
- Step 3: Connect an air supply to the Vacuum Pump. DO NOT exceed 80 psi or damage may occur.
- Step 4: Remove the cap on top of the manometer and fill the Manometer with PCI Interstitial Fluid. Slowly open the Ball Valve to get a bearing on how quickly the liquid will enter the sump.
- Step 5: Add liquid until the level nears the vacuum fitting. Slowly add liquid to the Manometer until the it is at the same level as the vacuum fitting and close the Ball Valve. The Ball Valve must be closed before fluid reaches the Ball Valve, or the Vacuum Pump may be damaged.
- Step 6: Disconnect the Vacuum Pump assembly from the vacuum fitting.
- Step 7: Cut the poly tubing below the Ball Valve and connect the it to the Manual Fill Tube.
- Step 8: Top off the Manual Fill tube and mark the liquid level.

# AXR SUPPLY IN MANUAL FILL TUBE CAP MANOMETER POLY TUBING POLY TUBING POLY TUBING PORT BRINE FILL PORT

VACUUM PUME

## **RESULTS:**

The Manual Fill Tube and Manometer should both have interstitial liquid in them and should be filled to the same level. If continuous monitoring is desired, a hydrostatic sensor can be installed in the 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 Monometer and Manual Fill Tube.

