



**Petro Specialties, Inc.**

**PetroVac Vacuum Pump System (Patent Pending)**

**Installation Checklist**

**Inspector/Installer Name:** \_\_\_\_\_

**PetroVac Installer Certificate Number:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Project/Site:** \_\_\_\_\_

## **1. Pre-Installation**

- Confirm system is compatible with double-walled tanks, piping, or sumps (no manifolded piping unless specifically approved)<sup>11</sup>.
- Verify interstitial volume does not exceed 2,114 gallons (tanks) or 2,642 gallons (piping)<sup>11</sup>.
- Review manufacturer's Installation and O&M Manuals.
- Ensure all required components are present:
  - PetroVac vacuum pump
  - Red Jacket Pump Control Box
  - Veeder-Root TLS-450Plus console with SCLD module
  - Vacuum tubing and fittings

## **2. Mechanical Installation**

- Securely mount PetroVac pump on a stable, vibration-free surface.
- Install Red Jacket Pump Control Box in accessible location.
- Route vacuum tubing from pump to the vacuum module, tubing must be run through EMT or Rigid conduit and seal offs provided where applicable.
- Ensure all tubing and fittings are tight and leak-free.

### 3. Electrical Installation

- Connect pump to Red Jacket Pump Control Box.
- Wire control box to TLS-450Plus console using explosion-proof conduit and fittings as required by code.
- Verify all wiring is properly grounded.
- Ensure power switch is accessible.

### 4. System Integration & Programming (per Veeder Root Installation Instructions)

- Connect SCLD module to TLS-450Plus console.
- Program TLS-450Plus for correct interstitial volume<sup>[1]</sup>.
- Set vacuum operating range (-9 psid to -3 psid, or as specified).
- Configure alarm and warning thresholds per manufacturer's instructions.
- Confirm that the TLS450Plus is programmed for positive shutdown of the PetroVac if liquid is detected in a vacuum sensor.

### 5. Functional Testing

- Power on system and verify pump operation via control box.
- Use TLS-450Plus console to confirm vacuum is maintained within specified range.
- Simulate vacuum loss to verify audible and visual alarms activate at correct thresholds.
- Simulate liquid incursion to test liquid sensor and alarm response<sup>[1]</sup>.
- Confirm system disables product delivery upon alarm (if programmed and allowed by code).

### 6. Final Checks

- Inspect all connections for leaks.
- Ensure all components are labeled and warning labels are intact.
- Provide operator with Installation and O&M Manuals, warranty, and approval documentation.
- Record installation details and keep documentation on site.
- Verify that the system will not draw more than 16 in. Hg of vacuum, adjust the vacuum relief valve if required.

**Notes/Comments:**

**Installer Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**For technical support, contact Petro Specialties, Inc.**

## **Contact Us**

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