



The ! Voice

Oct 2024



New Products

CARB Certified EVR P/V Valves

Scott Brown, VP Sales & Marketing, VST (brown@vstthose.com)

VST has earned its latest California Air Resources Board (CARB) Enhanced Vapor Recovery (EVR) Certified product. The SENTRY™ VST-EVRPV series of Pressure/Vacuum valves is VST's first EVR Phase I approved product.

These patented, innovative P/V valves offer the marketplace a unique mechanical design without springs or diaphragms. A simple approach for longer life. Compatible with E0 to E85 fuel blends.

There are two styles of SENTRY™ VST-EVRPV series:

VST-EVRPV-100 is a top-mount model that can be installed near the top of the vent pipe. It can be used as a quick and easy replacement for any traditionally installed P/V valve.

VST-EVRPV-200 is an industry innovation that can be installed and tested at an easily accessible mid-mount vent pipe location. No need for a ladder or lift.



VST Mission

To design and manufacture innovative products for retail refueling systems that are specifically engineered to protect the environment and consumers with safety and reliability.

VST Values

- R:** Respect Employees, Customers, Vendors, and Environment
- O:** Operational Excellence, Quality, Delivery, Safety & Cost
- I:** Innovative Passion, Unique, Industry Leader, and Committed to Excellence

VST Vision

VST strives to become the most trusted company in the global gasoline dispensing industry by manufacturing environmentally sustainable products and solutions that reduce harmful vapor emissions to create a future that protects the communities in which people live and work every day.



New Products

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CARB Certified EVR P/V Valves

CARB Certified EVR P/V Valves, continued

Every SENTRY™ EVRPV valve is shipped with a **VST-RC-200** specific style protective rain cap to keep out water and foreign debris.



Test-In-Place Kit for VST-PV-200

- ✓ VST-TIP-200 kit includes
- ✓ Stainless steel TIP stinger
- ✓ Testing hose
- ✓ Bell adapter for connection to P/V test unit

(P/V test unit not included)



See the Executive Order on the following pages.

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**State of California
Air Resources Board**

Executive Order VR-101-X

Relating to Certification of Vapor Recovery Systems

**Franklin Fueling Systems, Inc.
Phil-Tite/EBW/FFS Phase I Vapor Recovery System**

Whereas, the California Air Resources Board (CARB) has established, pursuant to California Health and Safety Code sections 25290.1.2, 39600, 39601 and 41954, certification procedures for systems designed for the control of gasoline vapor emissions during the filling of underground gasoline storage tanks (Phase I EVR System), in its Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities Using Underground Storage Tanks (CP-201) as last amended July 12, 2023, incorporated by reference in Title 17, California Code of Regulations, Section 94011;

Whereas, CARB has established, pursuant to California Health and Safety Code Sections 39600, 39601, 39607, and 41954 test procedures for determining the compliance of Phase I EVR Systems with emission standards;

Whereas, Franklin Fueling Systems, Inc. (FFS) requested and was granted certification of the Phil-Tite Phase I Vapor Recovery System (Phil-Tite System¹) pursuant to CP-201 on June 19, 2001, by Executive Order VR-101-A, and last modified on November 8, 2023, by Executive Order VR-101-W;

Whereas, Vapor Systems Technologies, Inc. (VST) requested an amendment to the Phil-Tite System to add the VST-EVRPV-100 Pressure/Vacuum (P/V) Valve and VST-EVRPV-200 P/V Valve with Test In Place (TIP) feature as modifications of the Phil-Tite System;

Whereas, CP-201 provides that the CARB Executive Officer shall issue an Executive Order if he or she determines that the vapor recovery system, including modifications, conforms to all applicable requirements set forth in CP-201;

Whereas, Executive Order G-21-474 delegates to the Chief of the Monitoring and Laboratory Division the authority to certify or approve modifications to certified Phase I and Phase II vapor recovery systems for gasoline dispensing facilities (GDF); and

Whereas, I, Walter Ham, Chief of MLD, find that the Phil-Tite System, as amended to include the modification listed above, conforms with all the requirements set forth in CP-201, and results in a vapor recovery system which is at least 98.0 percent efficient when tested pursuant to test procedure TP-201.1, Volumetric Efficiency for Phase I Systems (July 26, 2012).

¹ As used in this Executive Order, the term, Phil-Tite System, shall include Phil-Tite/EBW/FFS Phase I Vapor Recovery System.

Now, therefore, it is hereby ordered that the Phil-Tite System including modifications is certified to be at least 98.0 percent efficient when installed and maintained as specified herein and in the following exhibits. Exhibit 1 contains a list of the certified components. Exhibit 2 contains the performance standards and specifications, typical installation drawings, and maintenance intervals for the Phil-Tite System as installed in a gasoline dispensing facility (GDF). Exhibit 3 contains the manufacturing performance specifications. Exhibit 4 contains the manufacturer warranties. Exhibit 5 is the below-grade vaulted tank configuration.

It is further ordered that compliance with the applicable certification requirements, rules and regulations of the Division of Measurement Standards of the Department of Food and Agriculture, the Office of the State Fire Marshal of the Department of Forestry and Fire Prevention, the Division of Occupational Safety and Health of the Department of Industrial Relations, and the Division of Water Quality of the State Water Resources Control Board are made conditions of this certification.

It is further ordered that each component manufacturer listed in Exhibit 1 shall provide a warranty for the vapor recovery component(s) to the initial purchaser. The warranty shall be passed on to each subsequent purchaser within the warranty period. The warranty shall comply with all warranty requirements in section 16.5 of CP-201 including ongoing compliance with all applicable performance standards and specifications. Manufacturers may specify that the warranty is contingent upon the use of trained installers. The manufacturer warranty tag, included with each component, shall be provided to the service station owner/operator at the time of installation.

It is further ordered that the certified Phil-Tite System shall be installed, operated and maintained in accordance with the CARB-Approved Installation, Operation and Maintenance (IOM) Manual for the Phil-Tite System as certified by Executive Order VR-101-X. Equipment shall be inspected quarterly and annually per the procedures identified in the CARB Approved IOM Manual. These inspections shall also apply to systems certified by Executive Orders VR-101-A to W. A copy of this Executive Order and IOM shall be maintained at each GDF where a certified Phil-Tite system is installed.

It is further ordered that equipment listed in Exhibit 1, unless exempted, shall be clearly identified by a permanent identification showing the manufacturer's name and model number.

It is further ordered that any alteration in the equipment parts, design, installation, or operation of the system provided in the manufacturers' certification application or documents and certified hereby is prohibited and deemed inconsistent with this certification, unless the alteration has been submitted in writing pursuant to the process for Executive Order amendments set forth in Section 18 of CP-201 and approved in writing by the CARB Executive Officer or his or her delegate. Any sale, offer for sale, or installation of any system or component without CARB's approval as set forth above is subject to enforcement action.

It is further ordered that the following requirements be made a condition of certification. The owner or operator of the Phil-Tite system shall conduct, and pass, the following tests no later than 60 days after startup and at least once every three (3) years after startup testing, using the following test procedures:

- TP 201.3, Determination of 2 Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities (July 26, 2012),
- TP 201.1B, Static Torque of Rotatable Phase I Adaptors (October 8, 2003), and
- either TP 201.1D, Leak Rate of Drop Tube Overfill Prevention Device and Spill Container Drain Valve (July 12, 2021) or TP 201.1C, Leak Rate of Drop Tube/Drain Valve Assembly (July 12, 2021) depending on system configuration.

Shorter time periods may be specified in accordance with local district requirements. Notification of testing, and submittal of test results, shall be done in accordance with local district requirements and pursuant to the policies established by that district. Local districts may require the use of alternate test form(s), provided they include the same minimum parameters identified in the datasheet referenced in the test procedure(s). Alternative test procedures, including the most recent versions of the test procedures listed above, may be used if determined by the Executive Officer or his or her delegate, in writing, to yield comparable results. Testing the Pressure/Vacuum (P/V) Vent valve will be at the option of the local districts. If P/V valve testing is required by the district, the test shall be conducted in accordance with TP 201.1E, Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves (October 8, 2003) and Exhibit 2.

It is further ordered that the Phil-Tite System shall be compatible with gasoline in common use in California at the time of certification, including E85 (85 percent ethanol/15 percent gasoline) for specific components listed in Exhibit 1. Any modifications to comply with future California gasoline requirements shall be approved in writing by the Executive Officer or his or her delegate.

It is further ordered that GDF installations permitted for dispensing E85 fuel shall be subject to a throughput limitation of 1.2 million gallons per year (100,000 gallons per month).

It is further ordered that the certification of the Phil-Tite System shall remain valid through June 1, 2025.

It is further ordered that Executive Order VR-101-W issued on November 8, 2023, is hereby superseded by this Executive Order. Phil-Tite System certified under Executive Orders VR-101-A through W may remain in use at existing installations up to four years after the expiration date of this Executive Order when the certification is not renewed.

It is further ordered that this Executive Order shall apply to new installations or major modification of the Phase I system of existing gasoline dispensing facilities.

Executed at Sacramento, California, this 11th day of September 2024.

Walter Ham Digitally signed by Walter Ham
Date: 2024.09.11 15:15:29
-07'00'

Walter Ham, Ph.D., Chief
Monitoring and Laboratory Division

Attachments:

- Exhibit 1 Phil-Tite Phase I Vapor Recovery System Equipment List
- Exhibit 2 Installation, Maintenance and Compliance Specifications
- Exhibit 3 Manufacturing Performance Standards and Specifications
- Exhibit 4 Manufacturer Warranties
- Exhibit 5 Below Grade Vaulted Tank Configuration Installation, Operation and Maintenance Manual