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the Fuel Dispensing
Industry Professional

The ! Voice

Volume 8

March, 2016

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Hello!

Happy Spring! And welcome to Volume 8 of The VST Voice.

In Tech Talk, we'll look at how to conduct an INCON Manual A/L; VST vs Continental flow rates; PLLV vs. Mechanical Leak Detectors; and the correct procedure for tightening a Conventional Hose during assembly.

In Training, we'll reiterate how to get a VST Level B/C certification extension.

And finally in New VST Products, we'll look at VST's Conventional (Non Vapor Recovery Hoses) and the CARB Vapor Recovery Executive Order Renewal Program.

Until next time,

Susie

McLaughlin
Editor, The VST Voice



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Tech Talk

BY DOUG HARTY: SENIOR APPLICATIONS ENGINEER: HARTY@VSTHOSE.COM

INCON Manual A/L ... Tutorial ...

If a Weekly Vapor Collection warning occurs on a VST INCON balance site, a manual A/L can clear the warning and conduct a test on the hanging hardware. To conduct a manual A/L, follow the instructions below:

From the INCON screen, re-enable dispenser:

1. Go to the VRM»Dispensers menu
2. Press the dispenser showing "Shutdown."
3. Press "Yes" on the confirmation box.
4. Go to VRM»Control then select "Manual A/L Test." Now select the fueling point(s) that are in alarm and on the next single dispense, if A/L passes, then the alarm will clear.

Use a NON-ORVR vehicle for the test or a test can that is sealed to conduct the A/L. The front end of the nozzle MUST be in a container that will allow for a return of vapor so it can be measured by the INCON.

Here is an example of a test can that works.

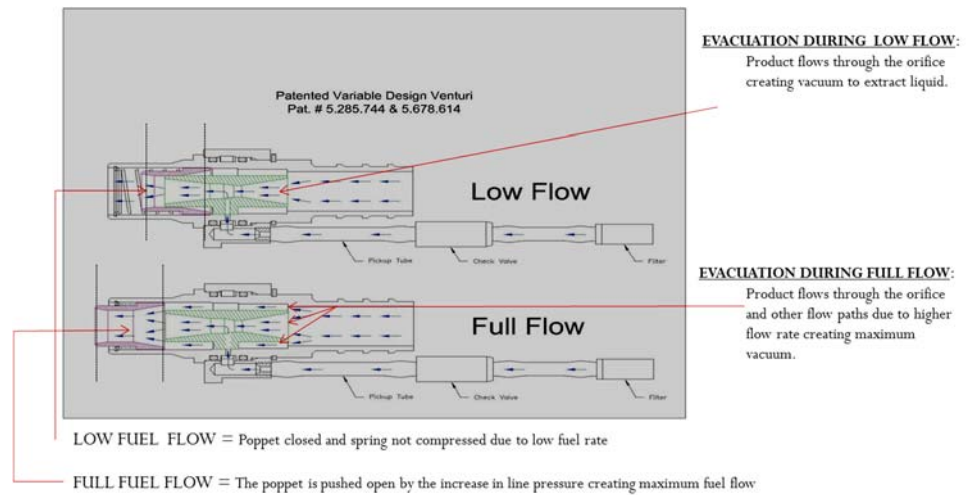


VST vs. Continental: Flow Rates

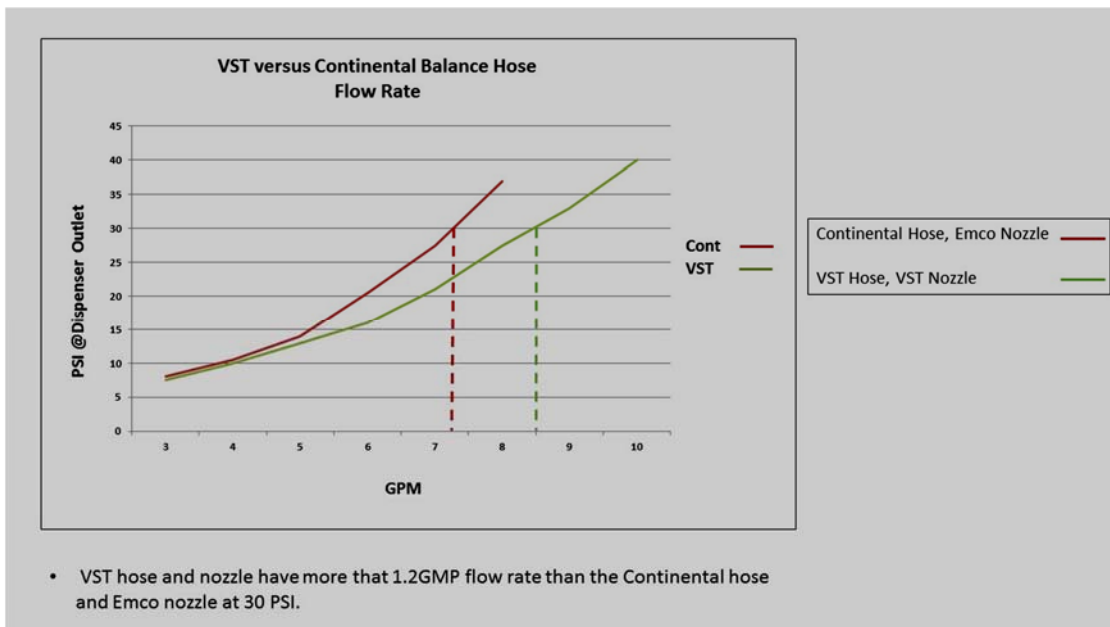
All Balance hoses are not the same!

VST Balance Curb hoses have always offered a significant flow rate advantage over the Continental Balance curb hoses, where you will usually see at least 1 gpm improvement.

This advantage is because of VST's patented Variable Design Venturi (VDV). VST VDV Balance hoses have a bypass beyond the fixed venturi as compared to our competitor's hoses. As the pressure increases, the spring loaded slide moves forward, thereby allowing the flow to travel both through and around the venturi coupling.



The net result is a lower pressure drop, with a corresponding flow rate increase: up to a 1 gpm higher flow rate over the competition.



PLLD vs. Mechanical Leak Detectors

PLLD (**P**ressure **L**ine **L**eak **D**etector) systems have less restriction in the turbine head. Mechanical leak detectors have an inherent issue of creating a restriction in the turbine head. Swift-check systems have screens that can clog up and restrict flow by 2GPM or more.

VFC controllers give you the ability to adjust pressure and boost flow. Sometimes a simple adjustment on the VFC can boost flows on balance sites to close to 10gpm. VST recommends having a certified contractor make adjustments.



This photo shows swift check valves used with PLLDs on Red Jacket STP's.

The one on the left is new. The one on the right has clogged screens, inhibiting flow.

Tightening of Conventional Hoses in a Field Installation

In the New Products Section of this document, you will be reading about VST's Conventional (Non Vapor Recovery) hoses.

Extra care must be taken on the installation of the Conventional Curb Pump hoses because the NPT fittings used with these hoses can be damaged by over-tightening. Additionally, the NPT nuts can be crushed, cracked, or distorted to the point of leakage or swivel binding.

To properly assemble the Conventional Curb Pump hose with the other mating connections:

1. Make sure to use pipe thread sealant and NOT Teflon tape.
2. After finger tightening, use your wrenches **ONLY** on the hex flats to tighten an additional 1 to 1-1/2 TFFT (turns from finger tight).
 - This is normally sufficient to obtain a proper seal.
 - Do not exceed 40 ft.-lbs. for 3/4" pipe threads or 48 ft.-lbs. for 1" pipe threads.
3. Be sure to refer to the installation instruction sheets included in the box.

VST Training

BY SUSIE MCLAUGHLIN: MANAGER, TRAINING & CERTIFICATIONS: MCLAUGHLIN@VSTHOSE.COM

Level A Training - Get it Done!

Executive Orders VR-203/204 Rev. P were signed in April of 2014. And with them came the **new requirement** that all contractors with existing VST Level A certifications are REQUIRED to re-certify their VST Level A by taking the Level A online training.

VST offers this training online, in a self-paced format, and at no charge to afford contractors an efficient / no cost way to keep themselves compliant with Air & Resources Board requirements. We strongly urge all contractors to get this done as soon as possible to take advantage of this wonderful opportunity.

The Level A training is available online, at no cost.

To access the training, go to <http://www.vsthose.com/education.aspx>

Level B/C Certification Extensions

If you have previously held a VST Level B or Level C certification, you are eligible for an extension on both levels by sending in the appropriate paperwork. Just scan and email the paperwork below to me, Susie McLaughlin: mclaughlin@vsthose.com

To get a Level B or a Level B/C extension:

1. Provide VST with a copy of your Level A certificate generated from the online training.
2. Provide VST with current Veeder-Root certs:
 - For Level B: VR Tank Monitoring
 - For Level C: VR Vapor Products

VST Training Videos

And on a final note... all VST training videos are available in two places: on the VST website and on the VST YouTube channel.

Here are the links:

<http://www.vsthose.com/education.aspx>

<https://www.youtube.com/channel/UCjmccC2ydFSxOJiP-9UfkDw>

New VST Products

BY SCOTT BENNETT: V.P. SALES & MARKETING: BENNETT@VSTHOSE.COM

VST Conventional (Non Vapor Recovery) Hoses

If you haven't heard, VST manufactures high-quality conventional (VSTaflex™ Series) gasoline and diesel hoses in 5/8", 3/4", and 1", as well as conventional low permeation (ENVIRO-LOC™ Low Perm Series) hoses in 5/8" and 3/4".

California allows non-vapor recovery conventional hoses to be used at facilities that maintain a fleet of 100% ORVR vehicles, such as rental car or fleet fueling locations. This requires the use of CARB Certified, low permeation conventional hose in these applications. VST ENVIRO-LOC™ 5/8" and 3/4" Low Perm Conventional Hoses, with the blue label, are approved and available for this application per Executive Order NVR-1-B.

The NVR-1-B Executive Order may be found here:

www.vsthoose.com/pdf/eo_nvr1b_092715.pdf

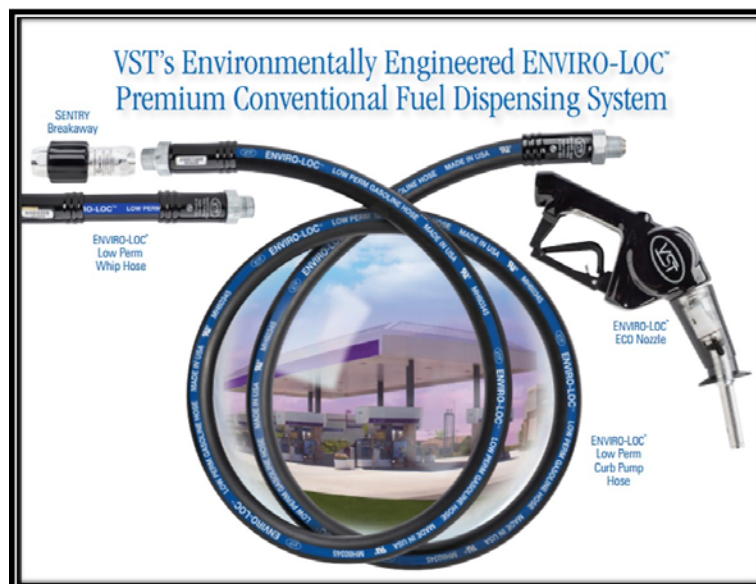
www.arb.ca.gov/vapor/eo_nvr1b_092715.pdf

Low perm hose is also mandated in areas outside of California, such as Ohio.

Other states use the VSTaflex™ Series conventional hoses with white branding and are available in both black cover for gasoline and green cover for diesel and marina applications. This hose can also be used in California for diesel applications.

VST conventional hoses are available with the VST Lip Seal Swivel, which is a unique swivel solution for conventional applications, eliminating the need for third-party swivels and their additional leak points. The patented design provides lip seal swivel technology for long life and ease of use.

We also make a conventional VST Sentry Breakaway that easily snaps back together for reliable service.



March, 2016

New VST Products

BY SCOTT BENNETT: V.P. SALES & MARKETING: BENNETT@VSTHOSE.COM

CARB Vapor Recovery Executive Order Renewal Program Information

Below is a letter we recently sent out to the EVR industry in California:

March 1, 2016

Subject: CARB Vapor Recovery EO Renewal Program Information

Dear Valued VST Customer:

VST would like to address some concerns from the industry surrounding the CARB letter sent to all three nozzle manufacturers in January 2016 with regards to renewing the Vapor Recovery Executive Orders. We would like to explain the Executive Order renewal process, how CARB has explained the renewal process, and the timing associated with renewal. We understand that there is a great deal of contradictory information filtering through the industry. We will try to lay out the information as we understand it from CARB as best we can. CARB has told us:

- All three nozzle manufacturers must renew their Executive Orders. VR203/204 (Balance EO) will expire in April of 2016 and VR201/202 (Assist EO) will expire in September of 2016.
- CARB's Executive Order process requires that each EO must be renewed every 4 years. CARB determines from the performance of the systems what testing, if any, must be conducted for the renewal.
- As soon as we agreed to renew, CARB said they would extend the EO for another year. Therefore, the VR203/204 EO will not expire until April of 2017, once the paperwork is complete.
- In the meantime, CARB is determining the test protocols that will be required for each renewal.
- VST has told CARB that once we agree to those protocols, we will let them know which systems we think will meet the requirements and then we will test those systems. This could be up to 5 different systems.
- Until CARB tells us the requirements for renewal, we do not know exactly how long the testing will take, but we speculate that it will take roughly 15-18 months to complete the testing, the paperwork, and the approvals for the EO.
- VST completed a full certification for the G2 nozzle in 2014, at this time, it is not clear as to how CARB will consider this certification in the renewal process.

VST is confident that we will gain another renewal; however, if the EO is not renewed, GDFs have 4 years from the expiration of an EO to replace the equipment. Therefore, if a station were to install today, they would have at least 5 years to use the currently approved equipment.

We hope this helps to clarify some of the information that has been circulating. Please feel free to contact your VST representative for further clarification, or to speak with CARB directly, CARB requests that you call either George Lew at 916-327-0900 or Merrin Wright at 916-324-6191.

Regards,

Scott Bennett

Scott Bennett
VP Sales and Marketing