



Vapor Systems Technologies, Inc.

Corporate Profile Products Literature Distributors Compliance Customer Support

News and Notes for the Fuel Dispensing Industry Professional

# The ! Voice

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650 Pleasant Valley Drive \* Springboro, OH 45066 \* [www.vsthose.com](http://www.vsthose.com) \* (937) 704-9333

Hello!



As summer gives way to autumn, we at VST are very busy with trade shows, new products, and ongoing contractor certifications.

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**Upcoming Trade Show**

VST has had a very active year of innovative development and new product launches, which we would like to share with you at this year’s upcoming NACS/PEI Show 2016. Please stop by our Booth #4850 and visit with us in Atlanta, GA at the Georgia World Congress Center: October 19<sup>th</sup> – 21<sup>st</sup>.

Not only can you see our recent product additions, but you will have an opportunity to learn about some of our newest products that we will be announcing throughout the rest of the year. See you in Atlanta.

**Tech Talk**

This month, Doug lays out the technical benefits and advantages of the VST Low Perm Hose. Be sure to read how the VST Low Perm Hose may just be what you’re looking for.

**New Products**

The EVR Vac Assist Low Perm Hose now has a signed Executive Order, so be sure to check out Scott Bennett’s column about its features and benefits as well as ordering information.

**Training and Re-Certifications**

As always, we’re keeping an eye on the status of contractor certifications. Be sure to check out my article on how to keep your VST contractor certifications current.

Until next time,

*Susie*

Susie McLaughlin  
Editor, The VST Voice

## Tech Talk

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

### VST EVR Vac Assist Low Perm Hose

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In Sept. 2016, VST received VR 201/202 Executive Order certifications for ENVIRO-LOC™ EVR Vacuum Assist Low Permeation Hose. The hose is distinguished by a blue Mylar branding stripe.

All Low Permeation hose designs require a special barrier layer applied over the tube to reduce the number of vapors permeating the hose. Traditional low perm hoses, are “rigid” due to the barrier layer combined with the wire braid hose. This design produces a stiff, and consequently, less customer-friendly design. In contrast, the VST ENVIRO-LOC™ Low Perm Vac Assist Hose uses field-proven hose technology designed for maximum hose flexibility and kink resistance, making it much easier for customer use.

Additionally, based upon market research from service contractors and end-users, VST developed optional whip hose configurations to accommodate all dispenser outlet ports. The most popular option incorporates a rigid balance coupling at the dispenser end and our proven technology of a Lip Seal Swivel coupling at the breakaway end.

By having a rigid style coupling at the dispenser connection, it is easier to install, and it reduces the likelihood of internal leakage by preventing fuel from leaking across a swivel connection. Leakage of this nature may cause dispenser integrity test and premature vapor pump failures.

The VST Lip Seal swivel coupling provides ease of installation, increased reliability with minimal swivel resistance, eliminates an O-Ring leak path option, and offers less hose kinking opportunities for the customer.

All VST EVR ENVIRO-LOC™ Low Perm Vac primary hoses use our unique Lip Seal Swivel technology on both ends. Most, if not all other fuel dispensing hose swivel couplings, incorporate an O-Ring swivel design. In these applications, O-Rings have a tendency to swell and dry out over time. Eventually, this O-Ring style of swivel coupling will seize and fail to swivel properly, thus causing undue stress on the hose as well as creating unwanted leaks.

VST addressed the O-ring swivel coupling seizing and leaking issues many years ago by incorporating a Lip Seal design into our hose swivel couplings. The Lip Seal design utilizes a spring-loaded wire encapsulated in a fuel compatible material. This sealing methodology distributes constant and even pressure in the sealing area, resulting in long-term, consistent swiveling action and reducing the potential for leaks. It has a proven track record of success.

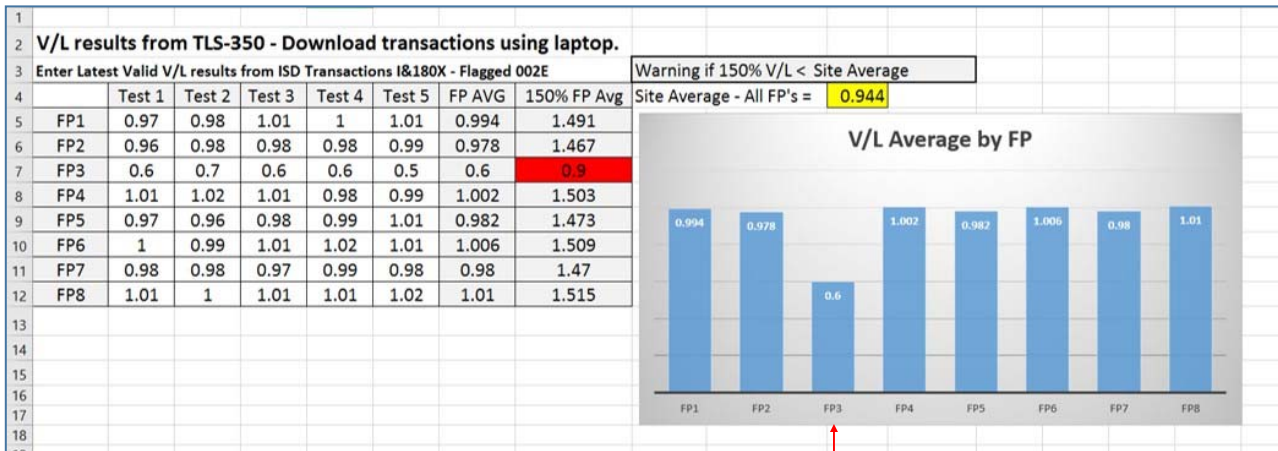


## Flow Collect Alarms

Flow collect alarms can be an expensive nuisance to station operators.

Flow collect alarms are caused by a fueling point losing efficiency during a non-ORVR (vehicle returns vapor to nozzle) dispensing event. With more ORVR cars on the road than ever, the non-ORVR fueling events become much more important with ISD monitoring. The ISD (In station diagnostic) looks at V/L (Vapor/Liquid ratio) results of non-ORVR events and looks for fueling positions that are lower than the site average. With less non-ORVR events, each and every non-ORVR fueling event is important.

VST's EVR balance system solution is designed to be consistent and efficient with high flow rates and liquid removal performance, ensuring a free flowing vapor path and consistent V/L results on every transaction. Other equipment may be EVR compatible, but poor front end seals and liquid blockage/back pressure will reduce system efficiency and will cause ISD Flow Collect warnings.



All VST nozzle/hose/breakaway/whips, except this one.

## Balance Conversions to VST Zero

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If you are converting a Healy site to VST during a dispenser upgrade, be careful how you order the new dispensers vapor piping configuration.

I have seen brand new dispensers that had to have the majority of the vapor piping replaced to meet backpressure requirements. That re-pipe consumed hours of extra labor that could have been avoided. If you are converting an existing assist dispenser, never leave any of the existing 5/8" copper piping in place. It will not meet the backpressure requirements of 0.35"WC @ 60CFH and 0.62"WC @ 80CFH. High backpressure equals low V/L. Low V/L equals ISD Flow Collect alarms. We recommend 1" vapor piping for best performance.

Mixing and matching other manufacturers hanging hardware equipment (nozzle/hose/breakaway/whip) can also raise backpressure values and lead to ISD alarms. The VST EVR system components were designed to work together, providing consistent performance with the end result of fewer ISD alarms. Substitution of non-VST components merely increases the likelihood of ISD alarms with resulting downtime and increased maintenance expenses.

## VST Training

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

### Level A Training - Get it Done!

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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

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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](mailto: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

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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 EVR Vac Assist Low Perm Hose



As you saw in Doug's Tech Talk article, in Sept. 2016, VST received VR 201/202 Executive Order certifications for ENVIRO-LOC™ EVR Vacuum Assist Low Permeation Hose. This is big news for vac assist sites!

Using the VST ENVIRO-LOC™ Low Permeation hose with VST EVR Healy Thread or M-34 Style Vac Assist Safety Breakaway provides a user friendly **system**, that in the event of a drive off, reduces volatility and potential damage to the site equipment and people. The VST Breakaway is field reattachable without requiring any additional components and cost.

This is a very quick and cost effective solution.

The new VST V34EV Low Permeation Vac Assist hose has been engineered for exceptional performance:

- Low permeation barrier limits vapor loss.
- Lighter weight, very flexible and easier to handle.
- Extremely kink resistant.
- Includes the VST Lip Seal swivel technology – over 18 years of exceptional service.
- Curb and whip hoses available with swivel M-34 thread or 1-1/4"-18 Healy style thread styles.
- A rigid Balance 1-7/8" – 12 UN thread converter whip hose is available.
- The new certification includes VST re-attachable ISVR and HEVR breakaways.



## New VST Products

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

### VST EVR Vac Assist Breakaway

VST breakaways have a long history of reliable operation and can easily be reconnected by snapping the halves back together. Select the VST-ISVR-SBK for M-34 Thread or VST-HEVR-SBK for 1-1/4"-18 Healy style threads.

These VST breakaways are designed with an optimal break force level. This performs the requirement to break and seal both ends in a drive off without the excessive rebound force seen with competing breakaways.

