



Vapor Systems Technologies, Inc.

Corporate Profile Products Literature Distributors Compliance Customer Support

News and Notes for the Fuel Dispensing Industry Professional

# The ! Voice

Volume 6

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

Hello!



The VST ZERO system is still proving to be a very good decision for many GDF owners throughout the state of California.

**Inside this issue:**

In this edition, Doug Harty offers troubleshooting tips.

Tech Talk

Then in the Training section, our gentle reminder to make sure all field technicians are current on their Level A Training... and we've included a quick-reference guide to receiving VST Level B/C Certification extensions.

VST Training

New VST Products

...From Scott Bennett a feature on the VST SENTRY Reattachable Safety Breakaways.

Until next time,

*Susie*

Susie McLaughlin  
Editor, The VST Voice

## Tech Talk

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

### VST ZERO Conversions ... Troubleshooting Tips ...

During the surge of VST ZERO conversions across the state, VST wants to share a few important installation and troubleshooting tips as they pertain to EVR Balance Conversions:

**Situation:**

Damaged O-rings from improper lubrication.

**Solution:**

ALWAYS properly lubricate hanging hardware O-rings during installation. Installing hanging hardware dry can damage O-rings, especially the smaller ones in the nozzle and breakaway that seal around the product hose. Remember that gasoline isn't a lubricant when dealing with O-rings!



**Situation:**

Product found in the vapor path, resulting in a Flow Collect Warn.

**Solution:**

Meter creep testing is an important test when responding to a Flow Collect warning or alarm. Damaged O-rings can cause the product to slowly fill the vapor path of the hose and create a blockage. If you find a significant amount of product in the vapor path, odds are good that you have a meter creep problem. Authorize the pump and watch the gallon display. Move the hose around and rotate at swivels to look for intermittent meter creep. Replace the damaged component.

**Situation:**

Flow Meter operability command (IV8700) not working.

**Solution:**

Some versions of Veeder-Root ISD 1.01 software do not have the IV8700 command included in the software. VST recommends checking to see if the IV8700 works BEFORE converting the site to VST ZERO. If the IV8700 command is not present, upgrade the software to the most-current version. The IV8700 command is needed for Flow Meter testing.

## Tech Talk

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

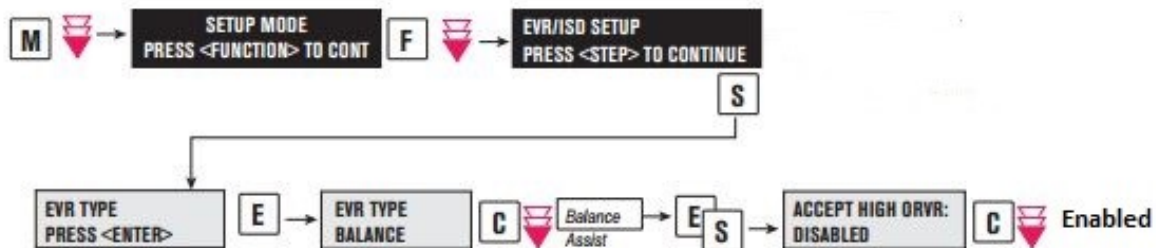
### VST ZERO Conversions Troubleshooting Tips, continued

**Situation:**

Higher than expected Flow-Collect warnings.

**Solution:**

If you have a site with ISD Version 1.02 and are having more Flow Collects than expected, and you don't see an issue with the equipment, you can try to enable the "Accept High ORVR" setting in the EVR/ISD Setup on the TLS-350. This will help the most with sites near airports (high rental car population) and sites with a high percentage of ORVR cars. Remapping the site can help too, especially if the Flow Collect Warnings are always at the same FP's.



**Situation:**

Hidden hose damage during drive off.

**Solution:**

I have created a simple tool to leak test hanging hardware assemblies. I highly recommend a pressure test on hanging hardware after a drive off. On several occasions I have made the mistake of just reconnecting a breakaway and assuming everything was fine. A week later, the site had a vapor leak warning. Doing a quick test of the hanging hardware assembly would have eliminated the return trip. You can use a lawn/garden sprayer if you don't have nitrogen or other pressure source. I use a separated breakaway half with a hole drilled and tapped in the side. Use a magnahelic gauge or manometer to test up to 10inWC. Do not apply pressure above 5 PSI.



Here is a picture of what I built.

## 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 [www.vsthose.com](http://www.vsthose.com), and click on the VST Education icon.

### 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 SENTRY Reattachable Safety Breakaway's

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Melissa inserts the nozzle, gets back in the car while talking on the mobile phone, "Lauren what do you want for dinner," then absent-mindedly drives off with the nozzle still in her car's gas tank!

The "LOUD BANG" of a dispenser breakaway disconnecting on the forecourt creates quite the scare, but most importantly everyone's safe.

This happens hundreds of thousands of times a year across the country and is a growing trend.



Breakaways are one of those products that receives no attention... just hanging there, standing guard on the dispenser until something goes wrong: "The SENTRY."

It is one of the most unappreciated, but critical components in the fuel-delivery system that protects the consumer.

Since the inception of the breakaway, the industry has used varying technologies with different breakaway sizes, shapes, and weights in the design, not to mention all the different marketing schemes that have been created. The essential requirements of a breakaway are to separate when a drive-off occurs, immediately sealing both ends of the hose, and doing so with a light-weight design to limit damage to nearby people and equipment.

The **VST SENTRY Breakaway**, with 20+ years field-proven technology, has incorporated all these essential design requirements. They eliminate nuisance breaks and offer easy field reattachment for the industry's most cost-effective solution.

## New VST Products

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

### VST SENTRY Reattachable Safety Breakaway's, continued

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VST's SENTRY Reattachable Safety Breakaway key features:

1. Separation at maximum 350 lbs. end pull:
  - This is a UL Listing requirement and must not exceed the 350lbs end pull.
2. Sealing of both ends of the breakaway during a drive-off:
  - For Conventional Breakaways, the two spring loaded poppets snap shut during a drive off, reducing the possibility of fuel escaping from either end of the breakaway.
  - For Phase II Breakaways, the two spring-loaded poppets snap shut and seal both the fuel and vapor paths on each end.
3. Light weight body:
  - As the bottom half of the breakaway separates, having a light weight body with a stay-put scuff guard reduces the damage to the dispenser and exposure to customers.
4. Absorbing pressure spikes and nuisances breaks:
  - Specially designed poppets compensate for periodic spike pressures in the dispenser, thus reducing the amount of nuisance breaks that many other competitive breakaways encounter.
5. Easy Reassembly:
  - Two anti-rotational pins in the bottom half align with the two slots in the fingers of the upper half. Just push until you hear the "SNAP."
  - No special tools required and approximately 10 lbs. of force to reassemble.

VST has developed 5 versions of the SENTRY Breakaway to be used in the following applications:

- Conventional
- Diesel
- Vac Assist
- Healy Assist
- ORVR Vac Assist

Please visit the VST website at [www.vsthose.com](http://www.vsthose.com) under the "Literature" section for additional information.