



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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Hello and Happy New Year!



Inside this issue:

Tech Talk

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New VST Products

As we kick off 2017, we here at VST wish you a happy and prosperous New Year!

In this edition, you'll learn about VST's hottest new product, the Platinum Hose, and all its associated advantages.

In Tech Talk, Doug looks at the importance of torque in hose installation. He also looks at the need to take special care when ordering new dispensers for a Balance Conversion to VST Zero.

In my Training section are the enduring gentle reminders about how to get a new Level A certification and how to get Level B/C extensions.

And finally in the New VST Products Section, Scott Bennett takes a deep look at the VST Platinum Hose and its many advantages

Until next time,

Susie

Susie McLaughlin
Editor, The VST Voice

Tech Talk

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

Platinum Hose

VST recently got our new EVR Platinum Balance Hose CARB certified. We shortened the hose cuff and added a cable throughout the hose to eliminate hose stretch during a drive off.

- The shorter cuff makes inspections easier for station employees and service technicians.
- The added cable makes drive-off events much safer by preventing hose recoil.
- Limiting recoil helps prevent pressure spikes which can damage meters and valves.
- Reduced hose stretch will help prevent ISD Vapor Leakage alarms caused by tears in the outer hose. Liquid removal devices can be moved or break during a drive off when the hose stretches out.
- Platinum hoses were created because of feedback from our technicians in the field, and VST's goal of making the best fuel hoses in the industry.



Blown dispenser valve diaphragm

Fuel Filters

VST EVR Balance hoses are capable of flow rates near 9 GPM using our patented Variable Design Venturi (VDV) hose. Compared to other hoses in the marketplace, the VST VDV hose can improve flow rates by 1 GPM or more.

In addition, while meeting with contractors throughout California, several people have told me that your choice of dispenser filters can make a huge difference in flow rates as well. Some contractors have reported 1 GPM boost in flow depending on the filter used.

Reach out to your filter distributor for more information.

Hose Installation

I would like to remind service technicians about the importance of torquing hose fittings properly. Balance and Assist fittings should be tightened to a maximum 50 ft/lbs. Overtightening can cause problems with swivels and create difficulty when repairing drive-offs. There are low cost torque wrenches available in the market. A 1 7/8" crows foot wrench fits balance hose fittings. Conventional hose swivels can be damaged from overtightening, VST recommends tightening conventional products 1 to 1 ½ turns after hand tight.



Balance Conversions to VST Zero

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!

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 PLATINUM Balance Hose

Lauren is filling up her car with gas when her mobile phone rings. She gets into the car, answers the phone and engages in a conversation. The phone call goes on for a few minutes, she hangs up, starts the car and drives off.....BANG.....the bone chilling sound of breakaway separating and the hose flying through the air.

Drive off events happen hundreds of thousands times a year in the USA!!

If you have not seen or been involved in a drive off, VST created a video that simulates a drive off event. You can view this simulated YouTube video at the following <https://youtu.be/IPepaQvWPBk>.



September 29, 2016, VST introduced the **VST PLATINUM HOSE**, a CARB approved Stage II Balance hose. The PLATINUM HOSE reduces site risk and cost for the GDF owner providing the lowest cost of ownership of any product in the market today.

ASK ME HOW.....

New VST Products

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

VST PLATINUM Balance Hose, continued...

Reduced Risk

PROBLEM: 30 to 35% hose stretch during a drive off creates significant hose recoil resulting in the hose flying out of control. There is a potential risk of damage and harm to dispensers, cars, and people.



Solution: VST Platinum Hose

An anti-stretch cable is placed between the inner and outer hoses and is connected to the coupling on each end of the hose assembly. As the hose starts to stretch, the anti-stretch cable absorbs the tension from the drive off and transfers the end pull to the breakaway. The breakaway separates closing off the fuel and vapor path on both hose ends (whip and primary) with the primary hose falling to the ground.



Anti-Stretch
Cable

New VST Products

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

VST PLATINUM Balance Hose, continued...

Reducing Costs

PROBLEM: the competitive hose can stretch as much as 30 to 35% during a drive off before the breakaway engages in the separation. Hose stretching 30-35% can change the positioning of the liquid pick up tube(s) by as much as 4" on competitive hoses rendering the liquid evacuation system inoperable.

As liquid accumulates in the bottom of the hose drape and the liquid evacuation system is out of position and is not functioning, it restricts vapors from freely flowing through the vapor path and into the dispenser.

The ISD flow meter will detect a lowered average V/L when a blockage occurs due to the damaged liquid removal system. This will trigger an ISD Vapor Collect Alarm, which requires a service call to clear the alarm and replace the hose.

Competitor
Hose



- 1st simulation, moved 4"
- 2nd simulation, moved 2"
- Total of 6" of movement

VST
Platinum Hose



- 1st simulation, no movement
- 2nd simulation, no movement
- 16th simulation, still no movement
- Total of 0 movement

New VST Products

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

VST PLATINUM Balance Hose, continued...

SOLUTION:

VST PLATINUM hose with the anti-stretch cable prevents the hose stretching and keeps the liquid pick up tube in the proper position for evacuation of any liquid accumulation. VST conducted 16 simulated drive offs without the liquid pick up tube moving.

PROBLEM #2:

The stretching of the competitive balance hose by 30-35% also changes the integrity of the outer hose. With the significant stretching, the hose may develop areas where the hose has been stressed and cracks causing vapors to escape the outer hose. The ISD pressure sensor monitors for system leakage, and when it exceeds the CARB defined limit, an ISD Vapor Leak Alarm is created. The Vapor Leak Alarm requires a service call to clear the alarm and repair the problem, which means replacing the damaged hose.

SOLUTION:

VST PLATINUM HOSE anti-stretch cable absorbs the tension created by the drive off and transfer it to the breakaway. Both the inner and outer hose experience little to no stretch and the integrity of the hose assembly stays in tact increasing the life of the hose assembly.

VST PLATINUM HOSE reduces risk and costly replacement of the hose when a drive off occurs.

The VST PLATINUM SYSTEM provides the most comprehensive, lowest cost of ownership solution for Stage II Vapor Recovery systems in the market today. Experience the benefits like other VST customers who have converted from the Vac-Assist system to the VST Balance System: up to a 90% reduction in ISD alarms with a 1-Year or less pay back.

Interested???

ASK VST HOW.....

