



The ! Voice

Message from the President

Glenn Walker, President, VST { walker@vsthose.com }



Dear Friends of VST:

The past two years have been trying times for everyone, most importantly for our employees and customers.

Of note, VST's service levels have dropped slightly as we work through several supply disruptions. Ordinarily, our normal service levels run 24-48 hours; whereas now, we have slipped to 3-5 days, and in some isolated cases, 2-3 weeks where substantial issues have inexpediently arisen.

Let me assure you that VST's staff has worked diligently to return to our normal service levels, and we anticipate reaching that goal (24-48 hrs.) by mid-April.

Specifically, we have mapped out our plan and committed to substantial inventories that will allow us to return to our normal service levels, with planned inventories increasing by about 20%.

And furthermore we have accomplished this goal without compromising VST's ongoing R&D! To that end, we will be introducing two new products shortly that we believe will excite all our customers.

VST wishes to thank all our distribution for their patience, and they should look forward to VST reaching our supply goals that most have become accustomed to.

Thanks for your business and we look forward to exceeding your quality and service expectations.

Glenn Walker

President, VST



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.





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VST: The Company

Gonzalo Perez, Application Engineer { perez@vsthose.com }



Employee Highlight: Kristina Lambert

VST would like to thank Kristina Lambert for her excellent work this past month!

Kristina started with VST over 9 years ago working in our nozzle assembly line. In 2019, she was promoted to fill our Customer Service and Shipping Manager roles. Kristina's hard work in these areas has been a primary reason why VST has been able to continue shipping orders with minimal delays.

Her favorite part about VST is the teamwork and "family" atmosphere. She feels that whenever she needs help with something there is always someone there to lend her a helping hand. Kristina demonstrates this same teamwork by helping the assembly team make product when things are slow in the office.

Kristina, we are very thankful to have you as a member of the VST family!

Keep up the great work!



<https://www.linkedin.com/company/70520708/>



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VST Flex Fuel Hose & GHG Reduction

Matt Stover, Sales Manager { stover@vsthose.com }



Renewable fuel blend options at gasoline stations continue to increase every year under the Renewable Fuel Standards (RFS) program in the United States. The goal is to help reduce the amount of green-house gas (GHG) emissions released to atmosphere in vehicle exhaust.

More and more gasoline stations across the USA, as well as other countries around the world, are adding fueling positions with increased amounts of ethanol included in their fuel. For example, over the course of the past 5 years the number of stations offering just E85 has increases by 40%. If you also factor in the growth of E15 and E25 across stations in the United States, which is up 10% from a year ago, there becomes an increasing need to have hanging hardware that meets all the different ethanol fuel requirements.

If you recall from our June 2021 edition of "The Voice," VST introduced to the marketplace our newest product the ENVIRO-LOC™ Flex Fuel Hose. Like other ethanol hoses in the marketplace the Flex Fuel hose can be used for ethanol fuels. However, unlike most manufacturers, the VST Flex Fuel hose can be used in any ethanol application from E0 to E85. This added benefit allows for station owners to use a single hose rather than having to purchase and use multiple ethanol rated hoses for the different ethanol fuels they are using. This strategy can help reduce cost by allowing stations to invest in using one hose option rather than paying for several different types of ethanol hoses that they may or may not need. The ENVIRO-LOC™ Flex Fuel Hoses also include stainless steel 3/4" rigid male couplings and are easily identified with a red and yellow branding stripe.

Are you in need of ethanol hose and can't get it from your current supplier? Don't hesitate to give us a call to learn more about how the VST ENVIRO-LOC™ Flex Fuel Hose can be the perfect addition to your hanging hardware lineup. We are taking orders and shipping quickly even in these uncertain times.

Learn more about this product by going to www.vsthose.com or contacting VST at 937-704-9333.



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Tips for Addressing ISD Collection Alarms

Doug Harty, Sr. Application Engineer { harty@vsthose.com }



With the expiration of the ORVR table in the TLS-350 ISD software and with the lower non-ORVR vehicle population , it has become even more important to have consistent vapor collection results. This may be achieved by:

- Upgrading the TLS-350 software if you have version 1.05 or lower.
- Enabling the ACCEPT HIGH ORVR setting on the TLS-350 means the TLS looks at a smaller data set to conduct an analysis of vapor collection performance.

Balance systems need to have similar vapor collection results across all gasoline fueling points. This is where the problem comes in: mixing and matching equipment can create issues because different manufacturers' equipment can have different back pressure values. Consequently, Statistical Flow Collect alarms are triggered when a fueling point has lower collection performance compared to the site average. Collect alarms are also caused if the fueling point has an abnormally high number of ORVR transactions.

Collection Performance warnings show up on the ISD Daily report with a numerical result, such as 0.62V/L. This warning is usually caused by an issue with high backpressure in the hanging hardware. It can also be caused by a poorly performing liquid removal device that allows fuel to reside in the vapor path creating a restriction to vapor flow. A quick check of the hose for liquid in the vapor path can indicate a liquid removal device failure.



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Sometimes the issue is a component, that by design or malfunction, causes higher backpressure even with brand new equipment. Hose kinks around the nozzle end coupling, for example, can often be enough to trigger ISD collection alarms. Leaky front end components and small hose or breakaway leaks can also cause random ISD Collect alarms. The meter creep test is a handy tool to check for fuel leaking into the vapor path.

Statistical ISD flow collection alarms show up as BLKD on an ISD Daily report. Statistical Flow Collect alarms can be more difficult to troubleshoot because there is often no hardware failure, just an abnormally high number of ORVR transactions. These alarms often clear on their own as the new day brings fresh data from different vehicles. Checking for liquid on statistical alarms is still a good practice, because a hose blocked by fuel will look like an ORVR vehicle with no vapor collected.

Additionally, assist systems can have similar issues since the ORVR table expired. Therefore, maintaining nozzle boots is critical to the ORVR detection process. Nozzle boots should be inspected regularly to avoid Gross/Degr collect alarms.

Meter creep testing is also a valuable tool on assist sites. Kinked vapor hoses are still a common failure on assist style hoses, and V/L testing is the best tool to find vapor hose issues on assist systems. Proper V/L adjustments by a service tech are very important to prevent ISD alarms.



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VST EVR hanging hardware solutions are designed to improve performance and reduce the potential for Statistical ISD Flow Collect alarms.

Balance Systems

- VST EVR Balance hoses include the only patented variable venturi liquid removal system for maximizing a clear vapor path.
- VST EVR Balance hoses offer the lowest back pressure option in the industry.
- VST Platinum Balance hoses incorporate a safety cable that reduces hose stretch during a drive-off event and improves the likelihood of continued performance of the liquid removal device.
- VST Balance nozzles and safety breakaways far exceed the CARB specification for allowable back pressure limits.

Assist Systems

- VST low permeation vac assist hoses incorporate a dual-helix wire reinforcement for maximum kink resistance.
- VST low permeation vac assist hoses utilize a unique lip-seal swivel for continual swivel action and eliminates the potential for a cut O-ring or hose kinking.
- VST vac assist safety breakaways offer a simple snap-back design that does not require additional components for repair.



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VST Training & Certifications

Susie McLaughlin, Manager, Training & Certifications
{ mclaughlin@vsthose.com }



Training & Certification Links

It's never been easier to get a new VST Certification than it is right now. Below is a list of links taking you directly to the VST online training that is right for you.

All the training can be easily done on your phone, and you will be able to immediately receive and retrieve your certification.

Training Level	Description	Link
Level A	EVR Hanging Hardware Install & Repair	Level A
Level E	CS2 USA GREEN MACHINE™ General Contractor	General Contractor
Level E1	CS2 USA GREEN MACHINE™ Electrical Install	Electrical Install
Level E2	CS2 USA GREEN MACHINE™ Vapor Piping Install	Vapor Piping Install
Level E3	CS2 USA GREEN MACHINE™ Start-Up Contractor	Start-Up Contractor
Level E4	CS2 USA GREEN MACHINE™ Service Contractor	Service Contractor

VST Level A Training on Your Smartphone

Completing your Level A training for certification or re-certification has never been easier – now it can be done on your Smartphone!

Click this link for a short video that walks you through the steps.

[How to Take VST Level A Training on Your Smartphone](#)



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