

Product Bulletin



Vapor Systems Technologies, Inc.
650 Pleasant Valley Drive
Springboro, Ohio 45066 (USA)
Toll Free: 1-888-878-4673
Phone: 937-704-9333
Fax: 937-704-9443
www.vsthose.com

UPDATE: Low Permeation Premium
Conventional Curb Pump Hose

09.19.14

ENVIRO-LOC™ Low Permeation Premium Conventional Curb Pump Hose assemblies are available for purchase from VST – Model V58EC.

The introduction of VST's Model V58EC low permeation premium hose assemblies demonstrate VST's continued commitment to engineered solutions aimed at managing fugitive vapors at gasoline dispensing facilities, improving the customer's forecourt fueling experience, and meeting the evolving regulatory requirements where states are decommissioning Phase II vapor recovery with updated regulations for low permeation hoses.

Key Product Highlights for ENVIRO-LOC™ Low Permeation Premium gasoline dispensing assemblies

- Exceeds the stringent UL 330 low permeation specifications of less than 10 grams/m²/day
- Reduces user exposure to Volatile Organic Compounds (VOC) gasoline vapors
- Meets the UL 330 requirement for assembled gasoline dispensing hoses
- Incorporates a robust construction of specially designed compounds with a dual helix wire for maximum kink resistance
- Easy to handle, light weight assemblies
- Available individually or as a complete ENVIRO-LOC™ Premium System hanging hardware set inclusive of a SENTRY safety breakaway and ENVIRO-LOC™ ECO dripless/spitless nozzle
 - ❖ Factory assembled for quick decommission installation applications
 - ❖ The bundled ENVIRO-LOC™ Premium System hanging hardware set offers the most environmentally friendly, economical fueling system available to the market today

Included with this Product Bulletin, you will find:

- An **ENVIRO-LOC™ Low Permeation Premium** gasoline dispensing assemblies product flyer
- A List Price Schedule
- A Product Installation Procedure

Contact VST or your VST Distributor of choice for details and availability.



ENVIRO-LOC™ Low Permeation Premium Conventional Curb Pump Hose Assemblies



ENVIRO-LOC™ Low Permeation Premium Conventional Curb Pump Hose Assemblies

are highly engineered fuel delivery products designed to exceed the stringent UL 330 requirements with less than 10 grams/m²/day of permeation. These low permeation assemblies offer the customer ease of use as well as lower emission exposure to volatile organic compounds (VOC) from fuel vapors – some of the lowest possible emissions in the industry! VST continues to push the innovative envelope in developing equipment aimed at improving air and water quality.

Customer Benefits:

- Reduces user exposure to Volatile Organic Compounds (VOC) – gasoline vapors
- Light weight assembly
- Easy to handle

Design Features:

- Exceeds the UL 330 low permeation specifications
- Dual helix wire design for maximum kink resistance
- Factory assembled and tested

ENVIRO-LOC™ Low Permeation Hose & Coupling Characteristics

Part No. Series	Nom. ID (In.)	Nom. OD (In.)	Braid	Weight (Lb./Ft.)	Min. Bend Radius (In.)	Coupling End Style
V58EC	5/8"	1.03"	Two Textile with Dual Wire Helix	0.37	3	3/4" NPT



Vapor Systems Technologies, Inc.

VST's Highly Engineered ENVIRO-LOC™ Premium Conventional Fuel Dispensing System

SENTRY
Breakaway



ENVIRO-LOC™
Low Perm
Whip Hose

ENVIRO-LOC™
ECO Nozzle

ENVIRO-LOC™
Low Perm
Curb Pump
Hose

VST's ENVIRO-LOC™ Premium Conventional System – Innovations for Clean Air and Water

The combination of VST's highly engineered; premium conventional forecourt equipment offers the industry the most environmentally friendly, complete set of gasoline dispensing equipment available in the marketplace today!

SENTRY Safety Breakaway

- Field reattachable
- Unique design that compensates for dispenser spike pressures and nuisance breaks
- Protective stay-put scuff guard that protects both the customer and equipment in the event of a drive-off

ENVIRO-LOC™ Low Perm Hose

- Exceeds UL 330 low permeation specifications
- Light weight
- Offers maximum kink resistance
- Reduces user exposure to gasoline vapors
- Factory assembled and tested

ENVIRO-LOC™ ECO Nozzle

- Exceeds CARB specifications
- Patented Dripless/Spitless and Safety Interlock technology
- Reduces user exposure to gasoline vapors
- Fewer fuel spills for a cleaner forecourt
- Light weight/User friendly



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 Listed Conventional
Hose Assemblies



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ENVIRO-LOC™ 5/8" Conventional Low Permeation

ENVIRO-LOC™ Low Permeation Series Curb Pump Assemblies

5/8" Hose - Hardwall: Textile Braids with Helix Wire
3/4" NPT Couplings

Length	Part Number	List Price	MSRP
8"	V58EC-008-MRMR	\$71.26	\$40.72
9"	V58EC-009-MRMR	\$71.26	\$40.72
10"	V58EC-010-MRMR	\$71.26	\$40.72
12"	V58EC-012-MRMR	\$71.26	\$40.72
4.0'	V58EC-048-MRMR	\$105.60	\$60.34
8.0'	V58EC-096-MRMR	\$145.00	\$82.86
8.5'	V58EC-102-MRMR	\$157.50	\$90.00
9.0'	V58EC-108-MRMR	\$170.00	\$97.14
9.5'	V58EC-114-MRMR	\$182.50	\$104.29
10.0'	V58EC-120-MRMR	\$195.00	\$111.43
10.5'	V58EC-126-MRMR	\$207.50	\$118.57
11.0'	V58EC-132-MRMR	\$220.00	\$125.71
12.0'	V58EC-144-MRMR	\$245.00	\$140.00
13.0'	V58EC-156-MRMR	\$270.00	\$154.29
14.0'	V58EC-168-MRMR	\$295.00	\$168.57
15.0'	V58EC-180-MRMR	\$320.00	\$182.86
16.0'	V58EC-192-MRMR	\$345.00	\$197.14
17.0'	V58EC-204-MRMR	\$370.00	\$211.43
18.0'	V58EC-216-MRMR	\$395.00	\$225.71
19.0'	V58EC-228-MRMR	\$420.00	\$240.00
20.0'	V58EC-240-MRMR	\$445.00	\$254.29

ENVIRO-LOC™ Low Permeation Series Add-On Options

5/8" Hose - Hardwall: Textile Braids with Helix Wire
Per foot Add-On

Description	List Price	MSRP
5/8" Hose - per foot add-on	\$15.80	\$9.03

Coupling Nomenclature Key

End Style	Description
MR	NPT Male Rigid

Packaging:
Whip Hoses Bulk Pack in Master Carton
Primary Hoses Individually Boxed

Contact VST for Pricing and Availability of Unlisted Parts
Factory Assembled

VST Installation Procedure for Low Perm Premium Conventional Fuel Hoses

Part Number Series: V58EC



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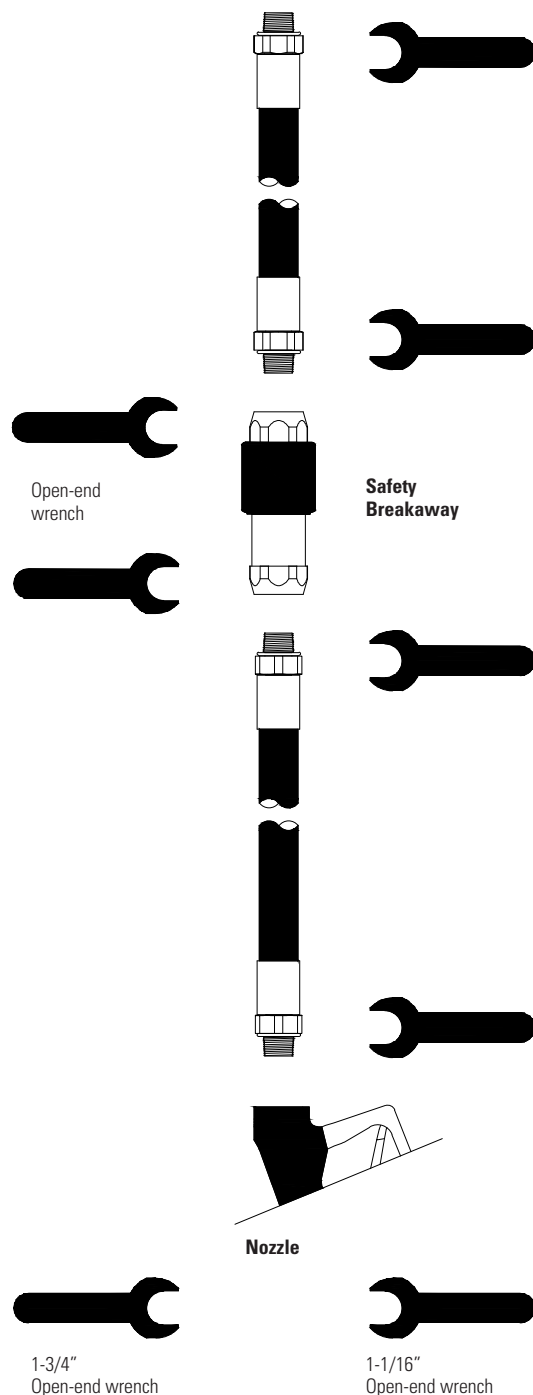
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Figure 1



GENERAL INFORMATION

If hanging hardware components are involved in a drive-off or incur other customer abuse, each individual component must be functionally tested prior to customer dispensing activities.

INSTALLATION PREPARATION

This procedure must be followed to ensure leak-proof installation and operation of these hose products.

1. Turn off and tag the power to the dispenser. Dispenser must be de-energized prior to service to avoid personal injury.
2. Barricade work area to block vehicle access to the dispenser.
3. Close dispenser shear valve prior to performing any service work with the hanging hardware (hoses, safety breakaways, and nozzles).
4. Drain liquid product from the hanging hardware set into an approved container prior to replacing any hanging hardware component. (Pull nozzle lever.)

If the nozzle has an interlock device, engage the interlock before pulling the lever.

5. Remove hanging hardware from the dispenser prior to making replacement component assembly connections. VST recommends connecting the whip hose to the dispenser as the last connection during hanging hardware assembly.

INSTALLATION

1. Initial inspection:
 - a. Carefully unpack hose from shipping carton.
 - b. Inspect hose for any damage to threads, exterior, etc.
2. These are pipe thread couplings. Use of thread sealant is recommended. Do not use Teflon[®] tape. With pipe thread connections, the amount of torque necessary to obtain a seal is dependent on the mating materials and thread condition. **Only enough torque to achieve sealing should be used.**
3. Attach hose on mating connections and tighten to finger tight. After finger tight, use 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.
 - a. DO NOT OVER TIGHTEN
 - b. DO NOT USE channel locks or pliers to tighten connections.
 - c. Always follow FLOW DIRECTION ARROW (where applicable)

VST Installation Procedure for Low Perm Premium Conventional Fuel Hoses

Part Number Series: V58EC

4. Visually inspect all hose connections for signs of potential leak points. Repair any issue immediately before proceeding.
5. Purge air from the system by pumping one-tenth (1/10) to two-tenths (2/10) of a gallon of fuel into an approved container. Inspect each hose joint connection for liquid leaks and make proper adjustments if necessary.
6. Check the nozzle shut-off action by dispensing fuel into an approved container at least three times to assure proper automatic operation. The fuel flow rate must be greater than 3 gpm for the automatic shut-off mechanism to operate.

To test, operate the nozzle and submerge the spout tip in fuel until the fuel level covers the vent hole. The main valve of the nozzle automatically shuts off when liquid covers the vent hole at the end of the spout. The hold-open latch will disengage automatically when the liquid covers the vent hole in the spout.
7. Measure the resistance between the dispenser outlet casting and the tip of the nozzle spout. Use an electronic multimeter set on the high range of the ohmmeter function. Resistance should not indicate more than 70,000 ohms per foot of hose. Example: The measured resistance for a 12-foot hose must not exceed 840,000 ohms (840 kilohms).

MAINTENANCE

Inspect hoses regularly for damage, loose connections or leaks. Replace as necessary. Subject to customer abuse, hoses should be replaced when damaged.

The hose is designed and constructed to give lasting service if properly handled and maintained. If for any reason it should need attention, contact your VST distributor for proper disposition.

NOTE: Due to abuse, misuse, changing fuel formulas, variation in maintenance practices, environmental conditions and/or conditions beyond the manufacturer's control, dispensing equipment may need replacement before five (5) years. Inspections and proper maintenance procedures should be followed by the station manager to determine if replacement is required before five (5) years.

WARNING

Unauthorized rebuilding or modifying of hoses voids **ALL** approvals and warranties.

VST products must be used in compliance with applicable federal, state and local laws and regulations.



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