



State of Illinois
Office of the State Fire Marshal

Checklist for Documenting UST Compatibility

SUBMIT THIS FORM WITH SUPPORTING DOCUMENTATION ATTACHED.

ALL COMPONENTS MUST BE LISTED IN DETAIL, & COMPATIBILITY DOCUMENTATION MUST CLEARLY IDENTIFY THE COMPONENTS.

Facility where equipment is located:

Facility Number: 2008562
Facility Owner: WALL MANAGEMENT
Facility Name: AMSTAR
Street Address: 6001 W. 35TH ST.
City: LICERO
County: LOOK

UST Information:

Tank ID Number: B
Tank Material: Steel
FRP ☒
Single Wall ☐ Double Wall ☒
Tank Volume: 4000 GAL.
Tank Product: EB5

Complete the checklist below, listing compatibility determination, method used and description. **All** answers must be "YES" and supported with a sufficient description or supporting documentation in order for your UST system to demonstrate compatibility with the blended fuel/biofuel product.

UST SYSTEM COMPONENTS	DOCUMENTATION DEMONSTRATING COMPATIBILITY WITH SUBSTANCE LISTED ABOVE		METHOD A or B (MAY USE BOTH)	DESCRIPTION OF COMPONENT TYPE, MODEL NUMBER, & NATIONAL LABORATORY CERTIFICATION, LISTING OR MANUFACTURER APPROVAL (ATTACH TO CHECKLIST)
TANK	NO	<u>YES</u>	A + B ₁	EXISTING XERXES DOUBLEWALL INSTALLED 2003
PIPING (incl. shear valves, flex connectors)	NO	<u>YES</u>	A + B ₂ A + B ₃ A + B ₄ A + B ₁₆	NEW PIPE IN NEW DISPENSER SUMP FFS, RED THREAD 1/2" NEW EBS PIPE FFS, APT, XIP FLEXIBLE NEW HOSE MASTER, FIRE SHIELD FLEX CONNECTORS NEW OPV, 100-DISZ EBS SHEAR VALVES
CONTAINMENT SUMPS	NO	<u>YES</u>	B ₁ A + B ₅ A + B ₉	EXISTING XERXES SINGLEWALL PUMP SUMP INSTALLED W/TANK, 2003 NEW DISPENSER SUMP, FFS, LHM-3607 NEW SUMP ENTRY BOOTS, FFS, REB-150-BL
PUMPS (STPs/Suction; Dispensers, hoses, nozzles)	NO	<u>YES</u>	A + B ₆ A + B ₁₇ A + B ₇ B ₂₀ B ₂₀ B ₂₀	NEW SUBMERSIBLE PUMP, FFS, 4020159 12 NEW DISPENSER, WAYNE, EB23/522003/2A/KLH4HZ NEW EBS HOSES, GACOTEAR, FLEXSTEEL FUTURA NEW BREAKAWAYS, VEEDER ROOT/LATON CMT15-EB5 NEW SWIVELS, VEEDER ROOT/LATON C720 3/4-EB5 NEW NOZZLES, VEEDER ROOT/LATON, NEPHL-EB5

UST SYSTEM COMPONENTS	DOCUMENTATION DEMONSTRATING COMPATIBILITY WITH SUBSTANCE LISTED ABOVE		METHOD A or B (MAY USE BOTH)	DESCRIPTION OF COMPONENT TYPE, MODEL NUMBER, & NATIONAL LABORATORY CERTIFICATION, LISTING OR MANUFACTURER APPROVAL (ATTACH TO CHECKLIST)
RELEASE DETECTION EQUIPMENT	NO	<u>YES</u>	B ₉ B ₁₀ B ₁₁ B ₁₃	NEW PROBE CAP, FFS 90037-E NEW PLP VEEDER ROOT, 848480-001 NEW PUMP & DISPENSER GUMP SENSORS VEEDER ROOT T94380-323 NEW TANK PROBE, VEEDER ROOT, 8416291-509
SPILL PREVENTION EQUIPMENT	NO	<u>YES</u>	B ₁₄ B ₁₁ A & B ₅ B ₅	NEW PROBE FLOAT, VEEDER ROOT 848480-004 NEW TANK INTERSTITIAL SENSOR, VEEDER ROOT T94380-345 EXISTING SATL CONTAINER, FFS 7054740 EXISTING FILL ADAPTER T1030103
OVERFILL PREVENTION EQUIPMENT	NO	<u>YES</u>	B ₉ B ₅ A & B ₂	EXISTING FILL CAP T7730102 NEW DROPTUBE, OPW, 6150 LHM-4000 NEW DROPTUBE BOTTOM, FGS, RED THREAD ILA
GASKETS & SEALS (installs after 10/13/18)	NO	<u>YES</u>	B ₉ A & B ₆ A & B ₃	NEW FILL/DROPTUBE ADAPTER GASKETS, FFS T7020103 NEW DISPENSER METER GASKETS, WATNE NEW SUBMERGIBLE PUMP GASKETS, FFS NEW PIPE, FFS
JOINT DOPES & ADHESIVES (installs after 10/13/18)	NO	<u>YES</u>	B A & B ₂	NEW HOGE SETS THREAD SEALANT, LIAGOLA SOFT SET, GE-16 FIBERGLASS PIPE GLUE, FGS, FEX

LEGEND: FFS = FRANKLIN FUELING SYSTEMS
FGS = FIBER GLASS SYSTEMS

Methods:

- Certification or listing of UST system equipment or components by a nationally recognized, independent testing laboratory for use with the regulated substance stored.
- Equipment or manufacturer approval. The manufacturer's approval must be in writing, indicate an affirmative statement of compatibility, specify the range of biofuel blends the component is compatible with, and be from the equipment or component manufacturer.

Note: Owners and operators may find American Petroleum Institute's Recommended Practice 1626, *Storing and Handling Ethanol and Gasoline-Ethanol Blends at Distribution Terminals and Filling Stations*, useful in complying with the compatibility requirements.

In order to be in compliance with the 2015 federal UST regulation compatibility requirements for storing biofuels, you must keep documentation of compatibility of the UST system components listed on this page as long as you store the fuel.

For your records, you should update this checklist each time you repair or replace components of your UST system to ensure you have all the required compatibility documentation while storing biofuels.

Checklist Completed By: print name: ED ANGEL

date completed: 4/21/20

signature: Edward Angel

position/title: PROJECT MANAGER

XERXES®

a zcl company

September 29, 2011

To Whom It May Concern:

The following summarizes the suitability of Xerxes' UL listed underground storage tanks for the storage of ethanol-blended fuels and biodiesel fuels:

Single-Wall Tanks

- Tanks manufactured prior to February 1981 were not designed for the storage of ethanol-blended fuel. Tanks are compatible with all ASTM biodiesel blends.
- Tanks manufactured from February 1981 through June 2005 are designed for the storage of ethanol fuel up to a 10% blend (E10), as well as all ASTM biodiesel blends.
- Tanks manufactured from July 2005 to date are designed for the storage of ethanol fuel blends up to 100% (E100), as well as all ASTM biodiesel blends.

Double-Wall Tanks

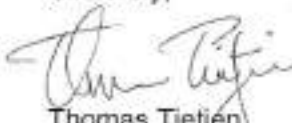
- Tanks manufactured prior to April 1990 were designed for the storage of ethanol fuel up to a 10% blend (E10), as well as all ASTM biodiesel blends.
- Tanks manufactured from April 1990 to date are designed for the storage of ethanol fuel blends up to 100% (E100), as well as all ASTM biodiesel blends.

Additionally, all storage tanks designed for storage of ethanol-blended fuel up to 100%, as noted above, are also UL listed under UL's Standard 1316 for the storage of ethanol fuel blends up to 100% (E100).

This summary is intended to address standard production tanks. Different tank models with an appropriate UL listing and designed for higher levels of ethanol storage were available throughout this period of time. Ethanol blend compatibility for such tanks is based on the design specifics of each tank.

Further information regarding product compatibility can be found in the applicable Xerxes limited warranty.

Sincerely,



Thomas Tietjen
Vice President
Sales & Marketing

making a lasting difference™

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Ph: 952-887-1890 • Fax: 952-887-1870 • Web: www.xerxes.com

B1

Compatible Fuels & Applications

NOV Fiber Glass Systems' Red Thread® IIA and Dualoy piping systems, which includes primary and secondary pipe, primary and secondary fittings, coaxial pipe and adhesives are **UL 971 Listed** for the following fuels:

Type A	Type B
100% Reference Fuel #2 (represents Diesel, per UL)	1% HCl
100% Fuel C (represents Unleaded Gasoline, per UL)	1% Nitric Acid
85% Fuel C / 15% MTBE	Sodium Bicarbonate (pH 10)
85% Fuel C / 15% Methanol	Sodium Hydroxide (pH 12)
70% Fuel C / 30% Ethanol	100% Toluene
100% Methanol	
100% Ethanol	
50% Fuel C / 50% Methanol	
50% Fuel C / 50% Ethanol	
100% Premium Leaded Gasoline	
100% Kerosene	

Fuels not specifically tested or UL971 Listed, but **compatible** with Red Thread IIA and Dualoy piping systems, which includes primary and secondary pipe, primary and secondary fittings, coaxial Dualoy and adhesives are as follows:

- E85 (although E85 is not specifically tested, UL did test E30, E50 and E100)
- Biodiesel (all blends)
- Aviation Gas

The 2005 UL 971 Standard, which became effective July 1, 2005, required testing for the following fuel groups:

MV Fuels - Motor Vehicle

Type A - 100% Ref. Fuel #2, 100% Fuel C, 85% Fuel C/15% MTBE, 85% "C"/15% Methanol, 70% "C"/30% Ethanol
Type B - 1% HCl, 1% Nitric Acid, Sodium Bicarbonate (pH 10), Sodium Hydroxide (pH 12)

CT Fuels - Concentrated

Type A - 100% Methanol and 100% Ethanol
Type B - None

HB Fuels - High Blend

Type A - 50% "C"/50% Methanol and 50% "C"/50% Ethanol
Type B - 100% Toluene

AM Fuels - Aviation and Marine

Type A - 100% Premium Leaded Gas and 100% Kerosene
Type B - None

The applications identified in the 2005 UL 971 Standard are as follows:

PC - Primary Carrier
SC - Secondary Containment
NV - Normal Vent
VR - Vapor Recovery

Red Thread IIA and Dualoy pipe, fittings and adhesives have been tested and UL Listed for all fuels and all applications identified in **2005 UL 971**. This includes both the DW Bonded Sump Entry Fitting - termination style, and SW Bonded Sump Entry Fitting.

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Phone: +1 210 477 7500

South America
Estrada de Acesso à Zona
Industrial Portuária de Suape, s/nº
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Europe
P.O. Box 6, 4190 CA
Geldermalsen, The Netherlands
Phone: +31 345 587 587

Asia Pacific
No. 7A, Tuas Avenue 3
Jurong, Singapore 639407
Phone: +65 6801 6118

Middle East
P.O. Box 17324
Dubai, UAE
Phone: +971 4881 3566

www.fgsipipe.com • fgsipipe@nov.com

NOV Fiber Glass Systems



Compatible equipment/models:

Models XP-100-D, XP-150-D, XP-175-D, XP-200-D, XV-200-D in sizes 1, 1-1/2, 1-3/4 and 2 in. diameter.

Models XP-100-SC, XP-150-SC, XP-175-SC, XP-200-SC in sizes 1, 1-1/2, 1-3/4 and 2 in. diameter.

Sincerely

Loren Swalheim
Director, Global Technical Services
Franklin Fueling System



HOSE MASTER

1233 East 222nd Street • Cleveland, Ohio 44117
(800) 221-2319 • Fax: (216) 481-7557 • www.hosemaster.com
Cleveland • Houston • Atlanta

ISO 9001
Registered Quality System



Hose Master UL-listed Fire-Shield and Tefcon Flexible Connectors for Flammable Liquids have been listed by Underwriters Laboratories for use with "Petroleum Products, Alcohols and Alcohol-Gasoline Mixtures", E85 (ethanol) fuel and any other alcohol based fuel or fuel consisting of a mixture of alcohol and petroleum fits within this listing.

Reference can be made to the UL Online Certifications Directory (www.ul.com). Click on "certifications" then enter "Hose Master" in the company name field.



April 24, 2020

Scott Johnson
Office of Illinois State Fire Marshal
1035 Stevenson Drive
Springfield IL 62703-4259

This letter is in reference to the following site:

Shell
6001 W 35th St.
Cicero, IL 60804

Parts and equipment listed are to have been manufactured within calendar year of this letter.

This letter affirms that the list of products referenced below is compatible with the following fuels and has UL/ULC Approval.

UL2447

Compatible fuels:

ASTM D5798 high-blend ethanol, with ethanol/gasoline blends between 51% - 83% (E51 - E83) - **Commercially known as E-85**

Compatible equipment/models:

LMM-3617

SBK-3, SBK-25

7054740X- EBW Spill Containment

Sincerely

A handwritten signature in black ink, appearing to read 'Loren Swalheim'.

Loren Swalheim
Director, Global Technical Services
Franklin Fueling System



April 24, 2020

Scott Johnson
Office of Illinois State Fire Marshal
1035 Stevenson Drive
Springfield IL 62703-4259

RE: Fuel Compatibility

This letter is in reference to the following site:

Shell
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UL971(2004 Standard) /ULC-S679

Compatible fuels

Motor Vehicle Fuels (or MV Fuels) — Petroleum-based hydrocarbon fuels typically found in consumer dispensing stations, such as gasoline or diesel, including blended fuels with max 15% MTBE, 15% Methanol or 30% Ethanol (as identified in Table 15.1 of UL 971, "Nonmetallic Underground Piping for Flammable Liquids").

High-blend Fuels (or HB Fuels) — Motor vehicle fuels with higher than normal gasoline blends with max 50% Methanol or 50% Ethanol (as identified in Table 15.1 of UL 971).

Concentrated Fuels (or CT Fuels) — Motor vehicle and alternate unblended fuels for up to 100% concentrations of Toluene, Methanol and Ethanol (as identified in Table 15.1 of UL 971).

Aviation and Marine Fuels (or A&M Fuels) — Motor vehicle and specialty aviation or marine-use fuels for up to 100% kerosene or leaded gasoline (as identified in Table 15.1 of UL 971).

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April 24, 2020

Scott Johnson
Office of Illinois State Fire Marshal
1035 Stevenson Drive
Springfield IL 62703-4259

RE: Fuel Compatibility

This letter is in reference to the following site:

Shell
6001 W 35th St.
Cicero, IL 60804

Parts and equipment listed are to have been manufactured within calendar year of this letter.

This letter affirms that the list of referenced products below has **UL/ULC 79A Approval** and is compatible with the following fuels:

E85

Compatible equipment/models:

402015912-STPAG33-VL2-12

Sincerely

A handwritten signature in black ink, appearing to read 'Loren Swalheim'.

Loren Swalheim
Director, Global Technical Services
Franklin Fueling System

A4B6



AIR &
GAS TYPING
General Purpose
Heavy Duty
Medium

CHEMICAL
TRANSFER

CLEANING
LUBRICANTS

FOOD
Transfer
Applications

MARINE

MATERIAL
HANDLING
Aluminum
Bulk Transfer
Concrete & Cement

MINING

PETROLEUM
Aircraft Fueling
Dispensing
Dock
Transfer

SPRAY

STEAM

VACUUM

VEYANCE

WATER
Overhaul
Sector & Discharge
Water Gun

WELDING

COUPLING
SYSTEMS

FLEXSTEEL® FUTURA™ ETHAN-ALL™ DISPENSING HOSE ASSEMBLY



Product Specifications

APPLICATION: Flexsteel® Futura™ Ethan-ALL™ dispensing hose assembly is UL certified for use in ethanol dispensing applications up to E85. This new assembly provides the quality Futurin™ cover with its superior ozone resistance along with a new premium layline. The tube construction meets the E25/E85 compatibility test requirements of UL 87A.

The Flexsteel® Futura™ Ethan-ALL™ dispensing hose assembly uses the Veyance proprietary Fuel Grip™ fitting with a premium nickel coating to ensure corrosion is limited.

CONSTRUCTION
TUBE: Nitrile synthetic rubber

COVER: Futurin™ synthetic rubber

REINFORCEMENT: Wire braid

TEMPERATURE: -40°F to 140°F (-40°C to 60°C)

PACKAGING: Coupled assemblies only

BRANDING: Example: 3/4" (UL) Listed Goodyear® Flexsteel® Futura™ Ethan-ALL™ E85 S69N Made in USA

ORDER CODES: 532-337-124

FLEXSTEEL® FUTURA™ ETHAN-ALL™ DISPENSING HOSE ASSEMBLY

ID		OD		MAX. WP		WEIGHT	
in.	mm.	in.	mm.	psi	Mpa	lbs/ft	kg/m
3/4	19.1	1.13	28.7	50	0.34	0.46	0.69



For more information, call 1-800-235-4632 (US), 1-888-275-4397 (Canada), or visit www.goodyearrep.com/hose.

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100105910 - 7/10

GOODYEAR
ENGINEERED PRODUCTS

VEYANCE
TECHNOLOGIES



April 24, 2020

Scott Johnson
Office of Illinois State Fire Marshal
1035 Stevenson Drive
Springfield IL 62703-4259

RE: CARB VR-101 Approval E-85 compatibility

This letter is in reference to the following site:

Shell
6001 W 35th St.
Cicero, IL 60804

Parts and equipment listed are to have been manufactured within calendar year of this letter and are to be installed at site referenced above within the next 60 days.

This letter affirms that the list of referenced products below has CARB (Californian Air Resources Board) approval and is **compatible with E-85 fuel** as listed under approval below:

CARB- VR-101

Compatible equipment/models:

777-201-02

90037-E

Sincerely

A handwritten signature in black ink, appearing to read 'Loren Swalheim'.

Loren Swalheim
Director, Global Technical services
Franklin Fueling Systems

Specifications and Compatible Fluids Requirements

The table below lists Veeder-Root Line Leak Detector specifications.

SPECIFICATION	TLS-4XX w/ DPLD	TLS-350 w/ PLLD	TLS-350 w/ WPLD
OPERATING TEMP:	-25 TO +130°F	-25 TO +130°F	-25 TO +130°F
COMPATIBLE FUELS:	UNLEADED GASOLINE LEADED GASOLINE 5% METHANOL / 95% UNLEADED 0 - 100% ETHANOL 10% ETHANOL / 90% UNLEADED 15% MTBE / 85% UNLEADED DIESEL BIODIESEL (UP TO B100) ^{1,2} KEROSENE JET FUEL AVIATION GASOLINE	UNLEADED GASOLINE LEADED GASOLINE 5% METHANOL / 95% UNLEADED 0 - 100% ETHANOL 10% ETHANOL / 90% UNLEADED 15% MTBE / 85% UNLEADED DIESEL BIODIESEL (UP TO B100) ^{1,2} KEROSENE JET FUEL AVIATION GASOLINE	UNLEADED GASOLINE LEADED GASOLINE 5% METHANOL / 95% UNLEADED 10% ETHANOL / 90% UNLEADED 15% MTBE / 85% UNLEADED DIESEL BIODIESEL (UP TO B100) ^{1,2} KEROSENE JET FUEL AVIATION GASOLINE
LINE FLOW RATE:	120 GPM MAX. W/SWIFTCHECK VALVE	120 GPM MAX. W/SWIFTCHECK VALVE	120 GPM MAX. W/SWIFTCHECK VALVE
OPERATING RANGE:	0 - 70 PSI	0 - 70 PSI	0 - 70 PSI
PROOF PRESSURE:	200 PSI	200 PSI	200 PSI
MAX. VERTICAL PIPELINE HEIGHT ABOVE TRANSDUCER³	11 FEET	11 FEET	11 FEET
MINIMUM PUMP OUTPUT PRESSURE⁴	23 psi	23 psi	23 psi

¹ Biodiesel compliant with ASTM D7467 (up to B20) or ASTM D6751.

² Consult pump manufacturer for compatibility ratings on fuel blends greater than B20.

³ Applications that exceed these max. vertical pipeline heights will require further consultation. Please contact Veeder-Root at 800-323-1799 (request a Veeder-Root Field Jacket Application Engineer).

⁴ Pump output pressure should be a minimum of 4 psi above the check valve's relief pressure.

Veeder-Root recommends that system software for the console be upgraded to the latest version when installing any new hardware. For TLS-350 Consoles, when installing latest software, PLLD or WPLD must be specified and customer must upgrade to ECPU2 if not already installed. See Accessories/Upgrades section of price book or your local Veeder-Root authorized distributor for details.

Sensor Application Matrix

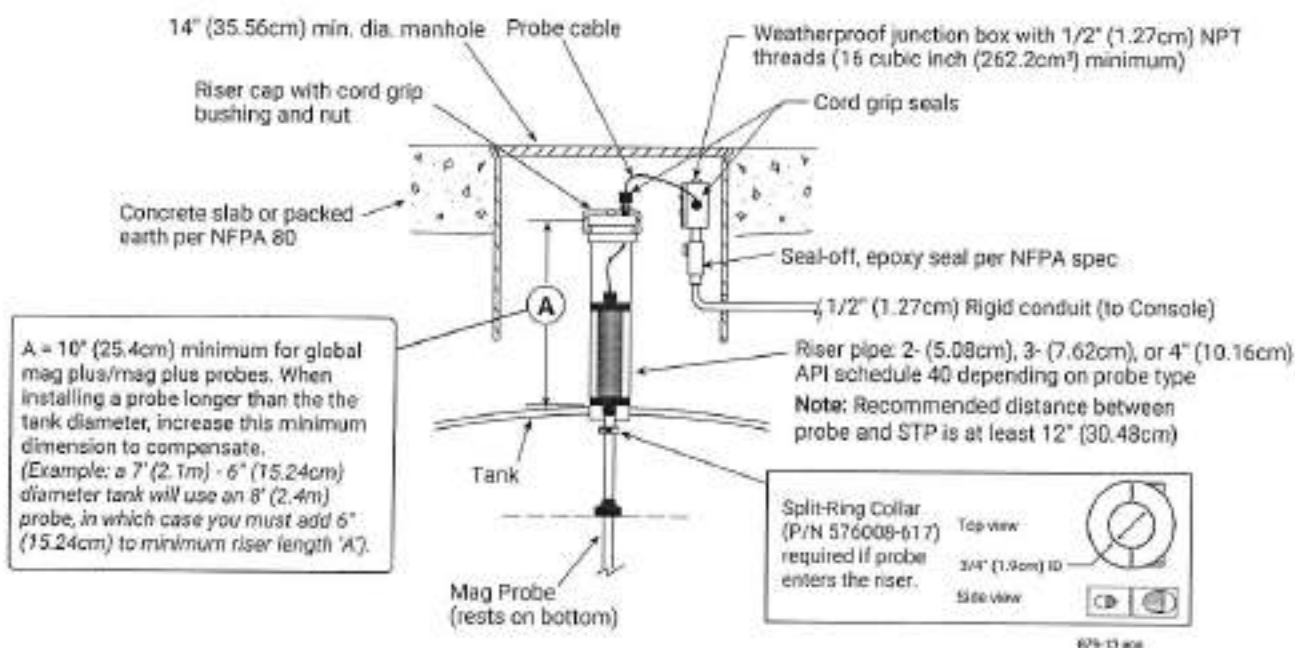
Sensor Description	Form #	Page #	Where Used						Category						Fuel Compatibility																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
			Dispenser Pan	Spill Containment	STP Sump	Conduit Tank	Annular Space	Monitoring Well	Oil/Water Separator tank	Discriminating	Non-Discriminating	Position Sensitive	Level Sensing	Static Testing	Hydrostatic	100% Gasoline	ASTM D975	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM D7547	ASTM 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¹Single use only if sensor was exposed to E85 or E100 (Test per Sensor Operability Guide [P/N 577013-814] in E-10 or less)

²Small Containment Areas (i.e. Spill Buckets)

Probe Description & Product Application	Stainless Steel Mag Plus In-Tank Probe for Monitoring Alternative Fluids with No Water Detection in both USTs and ASTs					
Specific Products Monitored / Product Compatibility	Part # & Description		Approved Products		Monitoring Functionality Options	
	Leak Detection / BIR - AccuChart Probes		Alcohol (<=100% Alcohol)*		A. 0.1 GPH static in-tank testing for USTs only	
	1. 846397-4XX Stainless Steel (SS) In-Tank Probe with High Grade Polymer (HGP) Canister with No Water Detection & 0.1 GPH Testing Capability, UL		Fuel Oil #6		B. 0.2GPH static in-tank testing for USTs only	
	2. 846397-5XX SS In-Tank Probe with HGP Canister with No Water Detection & 0.2GPH Testing Capability, UL		Propylene Glycol		C. 0.2 GPH Continuous Statistical Leak Detection (CSLD) for USTs only	
	3. 846391-4XX SS In-Tank Probe with Aluminum (AL) Canister with No Water Detection & 0.1 GPH Testing Capability, UL		Methyl Alcohol*			
	4. 846391-5XX SS In-Tank Probe with AL Canister with No Water Detection & 0.2 GPH Testing Capability, UL		Methanol (<=100% Alcohol)*		D. No Leak Detection / Inventory Only for USTs & ASTs	
	No Leak Detection/Inventory Only Probes		ETBE (<=100% Ether)		E. BIR - AccuChart for USTs only	
	1. 846397-6XX SS with HGP Canister with No Water Detection & No Leak Detection/ Inventory Only, UL		Ethanol (<=100% Alcohol) includes E85*		* Limited to E85 for ATEX probes	
	2. 846391-6XX SS with AL Canister with No Water Detection & No Leak Detection/ Inventory Only, UL		MTBE (<=100% Ether)			
			Used Oil			
		Ethylene Glycol				
Console Compatibility	Maximum Probes / Console	Probe Interface Modules				
		Module Part #	Module Description	# of Modules per Console	# of Probe Inputs per Module	Availability
TLS-450PLUS (8600 Series) with TLS-XB installed (3 max per system)	64 (32 with BIR)	332812-001	Universal Sensor Module (USM) Interface for Probes, Sensors, and DPLD	Up to 4	16	Sold Separately (either Factory Installed or as a Spare Module)
TLS4i (8601 Series)	4	No module required, probe input capability factory installed				
TLS4c (8601 Series)	2					
TLS-350/R/PLUS	16	329356-002	4-Input Probe Interface Module	4	4	Sold Separately (either Factory Installed or as a Spare Module)
TLS-300I	4	No module required, probe input capability factory installed				
TLS-300C	2					

	Part # & Description	Float Size	Cable Lengths	Min/Max Probe Length
Float Installation Kits	846400-0X4 Mag Plus Alternative Fluids Float Kit - No Water Float	4" (10.16cm)	5' (1.5m), 10' (3.05m), 20' (6.1m)	48" (1.2m) - 144" (3.66m)
	846400-3X4 Mag Plus Alternative Fluids Float Kit - No Water Float	3" (7.62cm)		
	846400-1X4 Mag Plus Alternative Fluids Float Kit - No Water Float	2" (5.08cm)		
Other Installation Accessories	312020-952 4" (10.16cm) NPT Riser Cap and Ring Kit for In-Tank Probes 330020-282 4" (10.16cm) Threaded NPT Riser Cap for In-Tank Probes			
Specifications	Product	Water		
Measurement Accuracy	+/- 0.0300" (0.762mm)	N/A		
Resolution - One Sample Reading	+/- 0.002857" (0.072571mm)	N/A		
Minimum Measurement - 2" (5.08cm) Float Kits	3.23" (8.2cm)	N/A		
Minimum Measurement - 3" (7.62cm) Float Kits	3.04" (7.72cm)	N/A		
Minimum Measurement - 4" (10.16cm) Float Kits	3.04" (7.72cm)	N/A		
Operating (Working) Temperature Range	-40 to +122°F (-40 to +50°C)			
Third Party Evaluation / Agency Listings & Links	UL, cUL, ATEX, IECEx			
	http://www.nwglide.org/evals/veeder_root_j.html			
Product Installation Guide Link	https://www.veeder.com/us/technical-document-library			

Example Installation


B13



April 24, 2020

Scott Johnson
Office of Illinois State Fire Marshal
1035 Stevenson Drive
Springfield IL 62703-4259

This letter is in reference to the following site:

Shell
6001 W 35th St.
Cicero, IL 60804

Parts and equipment listed are to have been manufactured within calendar year of this letter.

This letter affirms that the list of products referenced below is compatible with the following fuels.

Compatible fuels:

ASTM D5798 high-blend ethanol, with ethanol/gasoline blends between 51% - 83% (E51 - E83)-Commercially known as E-85

Compatible equipment/models:

778-301-05

Sincerely

A handwritten signature in black ink, appearing to read 'Loren Swalheim'.

Loren Swalheim
Director, Global Technical Services
Franklin Fueling System

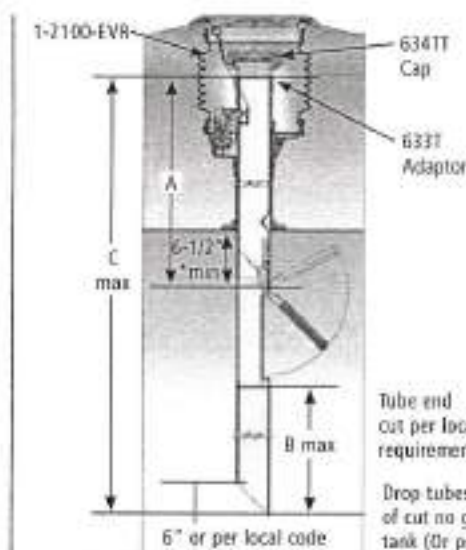
Typical Application Assembly

Installation schematic typical; exact dimensions will vary with tank configuration.

6150-4000

* From inside wall of tank to bottom of upper tube

6150K Float Kit Instruction Sheet Order Number: **H11403PA**



Replacement Parts

Part #	Description
6150K-0001	Float Kit
C03893M	Two-Point Inlet Tube
C03632M	Coaxial Inlet Tube
D01756	Inlet Tube/Adaptor Assy. for 6150P
H11931M	Drop Tube O-Ring
C03749	Trap Door Assy. (Remote)

Tube end cut per local requirements

Drop tubes shall be cut at a 45° angle, with the top of cut no greater than 6" from the bottom of the tank (Or per local regulations)

Ordering Specifications

Product/ Suffix #	Description	A-Upper Tube Length		B-Lower Tube Length		C-Overall Length		Max. Riser Length		Max. Nominal Tank Dia.		Max. Actual Tank Dia.		Weight	
		in.	m	in.	m	in.	m	in.	m	in.	m	in.	m	lbs.	kg
6150M-412C-EVR**	CARB 4", two-point, ethanol/methanol	120	3.1	not included		233 1/2	5.9	113 1/2	2.9	120	3.1	126	3.2	25	11
6150C-4001	Coaxial	60	1.5	83	2.1	154 1/2	3.9	53 1/2	1.4	96	2.4	107	2.7	16	7
6150C-4011	Coaxial	120	3.1	102	2.6	233 1/2	5.9	113 1/2	2.9	120	3.1	126	3.2	25	11
6150P-4002	CARB, pop. coaxial	60	1.5	83	2.1	154 1/2	3.9	53 1/2	1.4	96	2.4	107	2.7	20	9
6150P-4012	CARB, pop. coaxial	108	2.7	102	2.6	221 1/2	5.6	101 1/2	2.6	120	3.1	126	3.2	27	12
6150CM-4000**†	Coaxial, ethanol/methanol	60	1.5	not included		233 1/2	5.9	113 1/2	2.9	120	3.1	126	3.2	25	11
6150R-4000**	Remote	72	1.8	83	2.1	166 1/2	4.2	65 1/2	1.7	96	2.4	107	2.7	19	9

* For use with M85 & M100 methanol fuels

** Remote fill applications

† Methanol (M85) and Ethanol (E85) models do not include lower drop tube. Adaptor for 3" A.O. Smith Fiberglass Pipe (Drop Tube) is included. Appropriate length of 3" A.O. Smith Fiberglass Pipe is required for lower Drop Tube (not furnished).

Дистрибутор

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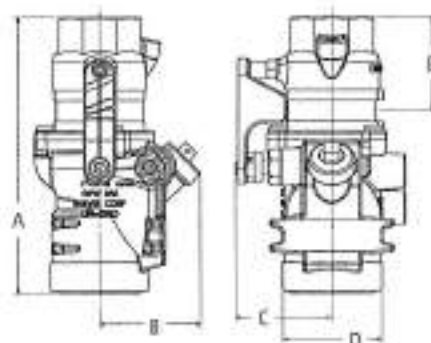
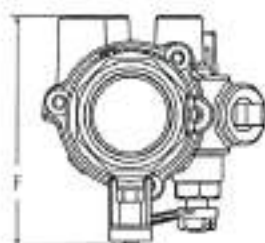
B15

10 Plus Series Emergency Shut-Off Valves

OPW raised the protection standard in emergency valves when it introduced the first double-poppet valve back in 1989. This industry-changing OPW innovation helped to significantly reduce the risk of fire, explosion, personal injury, property damage and environmental contamination at sites around the world. Major oil companies and jobbers agreed that providing added protection for their customers, investments and the environment were the three most convincing reasons for switching to the innovative new valves.

Dimensions

	in.	cm
A	7 ¹¹ / ₁₆	4
B	2 ¹⁵ / ₁₆	4
C	2 ¹¹ / ₁₆	4
D	2 ¹¹ / ₁₆	4
E	2 ⁵ / ₁₆	4
F	4 ¹¹ / ₁₆	4



Materials

Top: Cast iron
Body: Cast iron

Features

- ◆ The ONLY emergency shut-off valve in the world designed to protect your customers, investments, and the environment against the potential hazards of undetected shear groove leaks caused by low-impact incidents.
- ◆ The patent-pending SmartGuard™ design contains shear groove leaks, preventing fuel from leaking into sumps to help reduce the risk of fire, explosion, personal injury, property damage, environmental contamination, product loss and costly clean-up.

Ordering Specifications

Model #	Body Size in. cm	Body Weight lb. kg	Connection Threads	Poppet Configuration	Application	Mounting System
10P-0150	1 ¹ / ₂ 4	6.7 3.05	NPT	Single	Pressure	Combination
10P-0152	1 ¹ / ₂ 4	6.8 3.10	NPT	Double	Pressure	Combination
*E85-10P-0152E85	1 ¹ / ₂ 4	6.8 3.10	NPT	Double	Pressure	Combination

*E85 Applications



10 PLUS

- ◆ Superior shear groove design and engineering results in reliable valve shut-off in the event of a pull-over or dislodged dispenser. The 10 Plus utilizes the same time-tested field-proven design of the OPW 10 Series Emergency Shut-off Valve – the most specified emergency shut-off valve in the world.
- ◆ Fusible link releases to automatically close the valve to reduce fire hazard.
- ◆ Rigorously tested to meet OPW's rigid quality standards.
- ◆ E85 model has orange arm for visual indicator

10 Plus Replacement Parts

Part #	Description
10RPLUS-0150	10 Plus Single Poppet Replacement Top
10RPLUS-0152	10 Plus Double Poppet Replacement Top
202950	1 ¹ / ₂ " Tetra Seal
200143	Safety Hub/Fusible Link
H11361M	2" Tetra Seal

Listings and Certifications



10 Plus Series Instruction Sheet Order Number: 201614

CERTIFICATE OF COMPLIANCE

Certificate Number 20190301-MH1821
Report Reference MH1821-20020809
Issue Date 2019-MARCH-01

Issued to: WAYNE FUELING SYSTEMS LLC
3814 JARRETT WAY
AUSTIN TX 78728

This certificate confirms that
representative samples of FLAMMABLE LIQUID DISPENSING DEVICES, POWER
OPERATED
See addendum page

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: See addendum page
Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

B. Malachuk

Bruce Malachuk, Director North American Certification Programs
UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 20190301-MH1821
Report Reference MH1821-20020809
Issue Date 2019-MARCH-01

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Remote Control Models:

Power-operated flammable liquid dispensing devices, Ovation Series, Model B, R, HL or HS followed by 1 or 2, followed by 1, 2, 3 or 4, followed by 1, 2, 3, 4 or 5, followed by 1 or 2, followed by 1 or 2, followed by 0, 1, 3, 4, 5, 6, or 7, followed by C, D, or S followed by 0, 1, 2, 3, 4, 7, 8 or D6, may be followed by one or more of the following option suffixes, 2, 6, 7, 9, E, G, H, I, J, K, L, L1, M, N, P, S, T, or U, followed by one or more of the following option suffixes A, C, D, F, F1, G, H, L, M, N, O, R, R3 U, V, W, W1, X, Y, or Z.

Power-operated flammable liquid dispensing devices, Ovation Series, Model B, R, HL followed by 1 or 2, followed by 1, 2, 3 or 4, followed by 1, 2, 3, 4 or 5, followed by 1 or 2, followed by 1 or 2, followed by 0, followed by C, D, or S followed by 1, 2, 3, 4, 7, 8, or D6, may be followed by one or more of the following option suffixes, 2, 6, G, I, J, K, L, L1, M, N, P, S, T, or U, followed by one or more of the following option suffixes A, F, F1, G, H, L, M, N, O, R, R3 U, V, W, W1, X, or Y.

Power-operated flammable liquid dispensing devices, Ovation Series, Model E, followed by B or R, followed by 1 or 2, followed by 1, 2, 3, or 4 followed by 1, 2, 3, 4, or 5, followed by 1 or 2, followed by 1 or 2, followed by 0, followed by D, followed by 0, 1, 2, 3, 4, 7, 8, or D6, may be followed by one or more of the following option suffixes, C, D, E, G, H, I, J, K, L, L1, M, M2 N, P, R, R3, S, T, U, W, W1, X, Y, 6 and 7.

Standard(s) for Safety: **UL 1238**, Control Equipment for Use With Flammable Liquid Dispensing Devices
UL 87, Power-Operated Dispensing Devices For Petroleum Products
CAN/CSA B346-M1980, Power-Operated Dispensing Devices for Flammable Liquids
C22.2 No. 22-2018, Electrical Equipment for Flammable and Combustible Fuel Dispensers
UL 121201 Nonincendive Electrical Equipment for use in Class I and II, Division 2 And Class III, Divisions 1 and 2 Hazardous (Classified) Locations
CSA C22.2 No. 213-2017, Nonincendive Electrical Equipment for use in Class I and II, Division 2 And Class III, Divisions 1 and 2 Hazardous (Classified) Locations

B. Mahesh

Bruce Mahesh, Director North American Certification Program

UL LLC

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TECHNICAL DATA GASOILA® E-SEAL

THREAD SEALANT with PTFE.

Description: A dark green, opaque, viscous, non-hardening, smooth paste with PTFE.

Type: Slow-drying, soft-setting, non-toxic and brushable.

Cures by solvent evaporation providing a durable, long-lasting seal that can be easily disassembled.

Uses: For sealing pipe threads, pipe joints, fittings, hoses, nozzles, LPG cylinders, pump assemblies, oil burners, hydraulics, pneumatics, bolts, compressors, governors, engines, vacuum systems, motors, housings, plugs, fuel lines, couplings, regulators and many more.

Adhesion: Can be used on brass, copper, stainless steel, aluminum, black pipe, tin, galvanized pipe, polyethylene, polybutylene and more.

Chemical Resistance: Excellent resistance to gasoline, ethanol blended fuels including E10 and E85, petroleum solvents, kerosene, diesel fuel oil, BioDiesel, jet fuel, natural gas, cutting oils, ammonia, aliphatic solvents, acids, steam, potable water, but not oxygen.

Temperature Range: -100°F to 800°F (-74°C to 318°C). Allow to dry thoroughly before exposing to high temperatures. Remains usable in any sub-zero weather.

Pressure Range: Up to 10,000 psi when sealing liquids and up to 3,000 psi with gases.

Allow to dry, if possible, before subjecting to pressure.

Set Time: Depending on conditions, up to 24 hours. Dries to the touch.

Packaging: Available in 1/4 pint and pint cans with brush-top lids.

Other container sizes may be available upon special request.

Shelf Life: 1 year from date of manufacture.

Color: Dark Green

Clean Up: Tub-O Towels, Work Sav'r
Power Scrub Hand Cleaner or alcohol.



Always refer to MSDS before using this product.

Classified by Underwriters' Laboratories, Inc.® as to fire hazard only. Gasoila® E-Seal Classified 50 to 60 between kerosene and ethyl alcohol in respect to fire hazard. For use in devices handling gasoline, petroleum oils and butane. 972P

The information presented is in good faith, but no warranty is given, nor are results guaranteed. Since we have no control over physical conditions surrounding the application of information herein contained, Federal Process Corporation disclaims any liability for untoward results. Call or write for more information.



**FEDERAL PROCESS
CORPORATION**

Cleveland, Ohio

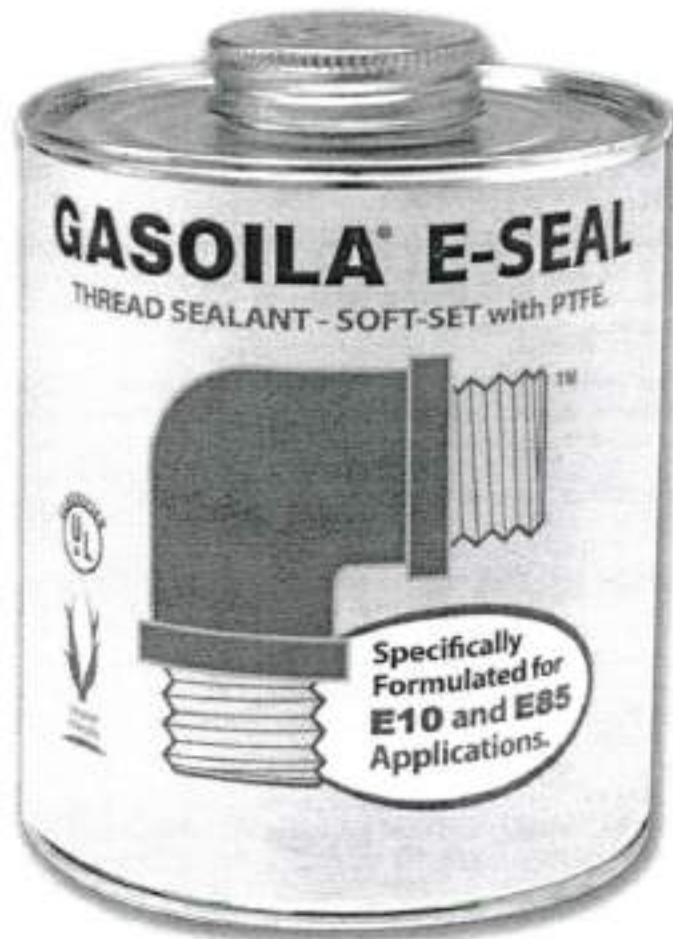
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www.GASOILA.com

A#B 18

GASOILA® E-SEAL

THREAD SEALANT with PTFE.



- Non-hardening, non-toxic, opaque, dark green paste
- **Designed specifically for ethanol blended gasoline including E10 and E85 (for 100% ethanol or methanol applications – use Gasoila 100)**
- Provides a positive seal on pipe threads, joints, fittings, hoses, nozzles, pump assemblies, oil burners, hydraulics, bolts, compressors, engines, motors, fuel lines and couplings
- For use on brass, copper, stainless steel, aluminum, black pipe, tin and galvanized pipe
- Excellent resistance to gasoline, ethanol blended gasoline such as E10 and E85, petroleum solvents, kerosene diesel oil, BioDiesel propane, butane, LPG, cutting oils, ammonia, aliphatic solvents, acids, steam and potable water
- NOT for use with Oxygen
- Temperature Range: -100°F to 800°F (-74°C to 318°C)
- Pressure Range: Up to 10,000 psi when sealing liquids and up to 3,000 psi with gases
- **UL Classified**



FPC Stock Code	Container Size	Units per Case
GE04	¼ Pint Brush	24
GE16	1 Pint Brush	12

A4B18



April 29, 2020

Scott Johnson
Office of Illinois State Fire Marshal
1035 Stevenson Drive
Springfield IL 62703-4259

This letter is in reference to the following site:

Shell
6001 W 35th St.
Cicero, IL 60804

Parts and equipment listed are to have been manufactured within calendar year of this letter.

This letter affirms that the list of products referenced below is compatible with the following fuels.

Compatible fuels:

ASTM D5798 high-blend ethanol, with ethanol/gasoline blends between 51% - 83% (E51 - E83)-Commercially known as E-85

Compatible equipment/models:

REB-150-SC

Sincerely

A handwritten signature in black ink, appearing to read "Loren Swalheim".

Loren Swalheim
Director, Global Technical Services
Franklin Fueling System



August 20, 2018

Subject: Gilbarco - Catlow, LLC Fuel Compatibility Statement

Catlow hanging hardware equipment is compatible with the percent content of the listed alternative fuels.

Equipment Type	Series or Part Number (P/N)		Ethanol blend %
Nozzle	Elite - NEPNLXX-E85, NEPLXX-E85, NENLXX-E85, NELXX-E85		85%
Magnetic Breakaway	CTM75-E85		85%
Swivels	C720 ¼-E85		85%

Compatibility has been determined by testing, industry research and/or engineering judgement. Any warranty claims shall be honored for above models in accordance with our standard policy.

Feel free to contact us if further assistance or clarifications are needed.

Best Regards,

Cameron Carmack

General Manager, Hanging Hardware