



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: 6046596
Facility Owner: CASEY'S RETAIL CO.
Facility Name: CASEY'S GENERAL STORE
Street Address: 1930 US RT #40
City: MULBERRY GROVE
County: BOND

UST Information:

Tank ID Number: 5
Tank Material: Steel _____
FRP X
Single Wall _____ Double Wall X
Tank Volume: 8,000
Tank Product: E-85

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>	<u>A</u>	<u>XERSBS</u> <u>10'-DIA-DW-MC</u> <u>UL 1316</u>
PIPING	NO	<u>YES</u>	<u>B</u>	<u>FRANKLIN FUELING SYS.</u> <u>APT XP-175-SC</u>
CONTAINMENT SUMPS	NO	<u>YES</u>	<u>A</u>	<u>FRANKLIN FUELING SYS.</u> <u>TMA 4836-0/0-OCS</u>
PUMPING EQUIPMENT	NO	<u>YES</u>	<u>A</u> <u>B</u>	<u>FRANKLIN FUELING SYSTEMS</u> <u>ISTR2-15</u> <u>UL 79A</u> <u>GILBARCO NJ4</u>

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	YES	B	VEEDER ROOT SUMP SEN 50R 794380-323 PLCD 859080-001
SPILL PREVENTION EQUIPMENT	NO	YES	B	FRANKLIN FUELING SYSTEM EBW 705545001C1-GHT
OVERFILL PREVENTION EQUIPMENT	NO	YES	B	OPW 7150-412C
GASKETS & SEALS (installs after 10/13/18)	NO	YES	B	GASDILA E-SEAL
JOINT DOPES & ADHESIVES (installs after 10/13/18)	NO	YES		

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: CHUCK CLINE

date completed: 8-8-18

signature: Chuck Cline

position/title: PROJ MGR



ZCL | XERXES STORAGE TANK SOLUTIONS

Today, double-wall tanks are the industry standard in fuel applications. To meet the needs of our customers we also offer several other fiberglass tank options for a variety of applications and requirements. Our tank options include: double-wall tanks, multicompartment tanks, triple-wall tanks, diesel exhaust fluid tanks and oil-water separators. We also have a tank upgrade system when tank replacement is not viable.

DOUBLE-WALL TANKS

Tank owners and system designers of underground fuel systems need tanks that provide secure storage of fuel over time. ZCL | Xerxes fiberglass double-wall tanks are an excellent solution because they are corrosion-resistant, both inside and out. Our tanks have a proven record of compatibility with traditional petroleum fuel as well as with new biofuels, which are increasing in use. Our double-wall fiberglass tanks are not vulnerable to the corrosion problems inherent in storing ethanol-blended fuels (E10, E15, E85), biodiesel fuels and ultra-low sulfur diesel (ULSD). Nor are they vulnerable to rust caused by corrosive soil environments. Options such as protective coatings and cathodic protection don't guard entirely against external corrosion and rust. This makes ZCL | Xerxes fiberglass double-wall tanks a superior choice for a wider range of fuel applications.

FEATURES

- UL-listed (1316) & ULC-listed (S615) for alcohol fuels
- Secondary containment around full tank circumference
- Dry & hydrostatic monitoring options
- Capacities up to 50,000 gal. (USA)
- Capacities up to 155,000 L (Canada)

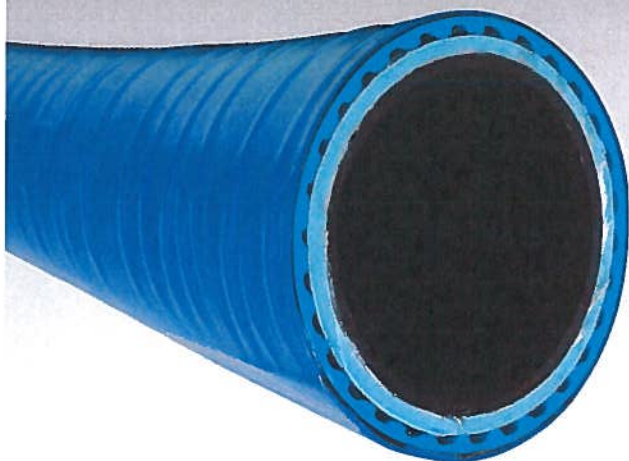
MULTICOMPARTMENT TANKS

These tanks are a popular choice among retail gasoline marketers and fleet fueling owners. The ability to store two or three grades or types of fuel in a single tank is particularly appealing when the amount of onsite space makes multiple tanks impossible or difficult. Customers may also find installation and insurance cost savings with a multicompartment tank.

The ZCL | Xerxes double-wall multicompartment tank comes standard with a double-wall bulkhead, while some other tank manufacturers require an upgrade to a double-wall bulkhead. Tanks are available in a wide range of capacities and in diameters of 6 to 10 feet.

FEATURES

- UL-Listed (1316) & ULC-listed (S615) for alcohol fuels
- Secondary containment around full tank circumference
- Dry & hydrostatic monitoring options
- Two- & three-compartment models
- Capacities up to 40,000 gal. (USA)
- Capacities up to 155,000 L (Canada)



XP FLEXIBLE PIPEWORK

APT™ brand XP pipework provides a highly flexible pipework solution that makes installation simple and easy in any weather condition or site configuration. XP pipework can be used in both pressure and suction applications, and is ideal for underground service station fuel delivery systems. The XP pipework system features controlled flexibility, even in low temperatures, permitting fast, easy installation.

Highlights

- Available in 1", 1½", 1¾" and 2" diameters in a variety of coil lengths.
- The D-Series piping is a single wall, direct bury piping.
- The SC-Series piping provides additional environmental security as a secondary contained direct bury pipe.
- XP pipe features a 3 ft. bend radius for all pipe diameters making it one of the most flexible, yet durable fuel pipes available.
- No possibility of piping layer delamination due to the layered piping construction of high-grade material.
- With long coils (1000+ ft.) and simple fittings, XP pipework can be installed quickly without specialized tools in any weather.

Specifications

- Primary layer construction of Nylon 12 - the fuel line material contains no polyethylene.
- Do not store piping in direct sunlight.

Approvals/Certifications

- UL971 listed to the January 2014 standards.
- Biofuel compatible (E85 and Biodiesel).

Ordering Information

Model	Description	Ft.	Reel	Weight	
				Lbs.	Kg
XP-100-SC	1" secondary contained	250	Master	301	136
		500	Master	408	185
		2500	S. Master	1299	589
XP-100-D	1" single wall	250	Master	258	117
		500	Master	320	145
		100	Master	250	113
		250	Master	333	151
XP-150-SC	1½" secondary contained	500	Master	470	213
		1,000	S. Master	789	358
		1,500	S. Master	1061	481
		100	Master	225	102
		250	Master	270	122
XP-150-D	1½" single wall	500	Master	570	259
		1,000	S. Master	536	243
		1,500	S. Master	686	311
		100	Master	300	136
XP-175-SC	1¾" secondary contained	250	Master	405	184
		500	Master	580	263
		1,000	S. Master	1076	488
		100	Master	335	152
XP-200-SC	2" secondary contained	200	Master	440	200
		350	Master	598	271
		700	S. Master	971	440
		100	Master	295	134
XP-200-D	2" single wall	200	Master	360	163
		350	Master	458	208
		700	S. Master	691	313



QLWA.MH62435
Containment Sumps, Fittings and Accessories for Fuels

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Containment Sumps, Fittings and Accessories for Fuels

See General Information for Containment Sumps, Fittings and Accessories for Fuels

FRANKLIN FUELING SYSTEMS INC

3760 MARSH RD
MADISON, WI 53718-6900 USA

MH62435

[illegible][illegible]

Sump accessories for automotive fuels. Models DUCT-400-100 and DUCT-400-250 4" diameter chase pipe; Models LMT-1410, LMT-1410-36, LMT-1913-T, LMT-1913-T-36, LMT-2010, LMT-2010-36, LMT-2018, LMT-2313-T, LMT-2407, LMT-2715, LMT-2811, LMT-2915, LMT-2916-DEF, LMT-3610, LMT-3610-R, LMT-3617-36, LMT-3617-DEF, LMT-3914, LMT-3914-36-W, LMT-4018, LMT-4111, LMT-4115, LMT-4116, LMT-4117, LMT-4118, LMT-4119, LMT-4120, LMT-4121, LMT-4122, LMT-4123, LMT-4124, LMT-4125, LMT-4126, LMT-4127, LMT-4128, LMT-4129, LMT-4130, LMT-4131, LMT-4132, LMT-4133 dispenser sump frames; Models SBK-1, SBK-2, SBK-2S, SBK-3 and SBK-3-K sheer valve mounting bars for dispenser sums; Models STB-150, STB-175-K, STB-200-C, STB-200-L, STB-150, STB-175 and STB-200 test boots; Models 49-040-032, 49-040-032-PYR, 49-063-050, 49-063-050-PYR, 49-075-063-1, 49-075-063-1-U, 49-075-063P1-U, 49-110-063SC-U, 49-110-090-U, 49-110-090PT-U, 49-125-110-U, 49-125-110T-PYR, 49-075-063TP1-U-K, 49-063-050-U, 49-063-050TP-U, 49-075-063-1-U, 49-075-063P1-U, 49-110-063SC-U, 49-110-090-U, 49-110-090PT-U, 49-125-110-U, 49-125-110TP-U, 49-031-027, 49-038-033, 49-063-031 and 49-063-038 fusion reducer fittings; Models MA-22, MA-24, TFA-400-I and TFA-600 tank sump adaptors; Models DMP36-1-WTSS-32, DMP36-1-WTSS-33, DMP36-1-WTSS-42, DMP36-1-WTSS-48, DMP36-2-WTSS-32, DMP36-2-WTSS-33, DMP36-2-WTSS-42, DMP36-2-WTSS-48, DMP42-1-WTSS-42, DMP42-2-WTSS-42 and DMP42-4-WTSS-42 multi-port sum llds.

Penetration fittings, Models FEB-075-D, FEB-075-DZ, FEB-175-SC, FEB-400-R, FEB-050-D, FEB-050-SC, FEB-075-D2, FEB-075-MD, FEB-075-MDD, FEB-075-SC, FEB-075-SCSA, FEB-100-D, FEB-100-MD, FEB-100-MDD, FEB-100-SC, FEB-150-D, FEB-150-MD, FEB-150-MDD, FEB-150-SC, FEB-175-D, FEB-175-MD, FEB-175-MDD, FEB-175-SCSA, FEB-200-D, FEB-200-MD, FEB-200-MDD, FEB-200-SC, FEB-300, FEB-300-R, FEB-400-F, DEB-150-D, DEB-150-DA, DEB-150-SCA, DEB-175-D, DEB-175-DA, DEB-175-SC, DEB-175-SCA, DEB-200-D, DEB-200-DA, DEB-200-MD, DEB-252-DA, DEB-BL-DA, FDB-075-D, FDB-075-SC, FDB-100-D, FDB-100-SC, DDB-075-D, DDB-075-SC, DDB-100-D, DDB-100-SC, FBB-075-D, FBB-150-SC, DDB-150-SC, DDB-200-SC, FWEB-150-SC, FWEB-175-SC, FWEB-200-SC, 303-075-EIF, 303-075-EIF-U, 303-063-EIF-U, 303-075-EIF-U, 303-050-EIF, 304-075-BS, 304-110-050-TP, 304-110-063-TP, 304-110-075-TP, 304-110-090, 304-110-090-TP, 304-110-090TP-U, 304-110-090-U, 304-110-TP, 305-125-110, 305-125-110-TP, 305-125-110TP-U, 305-125-110-U, 305-3X27MM-CAN, 305-R-1, 305-BS, FEB-075-M, FEB-110-M, FEB-S-125.

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Questions?

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Piping & Containment Systems

Brand: APT™

Product	Models	UL/ULC File #	UL/ULC Standard	Gasoline / Ethanol Blends			Diesel / Biodiesel Blends		Heating Fuels Fuel Oil
				Up to E10	Up to E15	Up to E85	Up to B5	B100	
Flexible pipework & fittings	XP Series	MH17457	UL971/ULC-S660	UL/ULC	UL/ULC	UL/ULC	UL/ULC		UL/ULC
Polyethylene tank sumps	TSD, TSM, TSS Series	MH27175	ULC/ORD-C107	ULC					ULC
Polyethylene dispenser sumps	LMM, LBD, LMD Series	MH27175	ULC/ORD-C107	ULC					ULC
Polyethylene transition sumps	TS, IPS, AST Series	MH27175	ULC/ORD-C107	ULC					ULC
Fiberglass tank sumps	TMA, TDA, TM, TD Series	MH27175	ULC/ORD-C107	ULC					ULC
Fiberglass dispenser sumps	LMM & DHW Series	MH27175	ULC/ORD-C107	ULC					ULC
Entry boots (flexible)	DEB, FEB, FDB, DBB, DDB, FBB Series	MH27175	ULC/ORD-C107	ULC					ULC
Entry boots (rigid)	REB, RDEB, REB-R, RDEB-R, REB-C, REB-C-R, FWEB Series	MH27175	ULC/ORD-C107	ULC					ULC

Piping & Containment Systems

Brand: UPP™

Product	Models	UL/ULC File #	UL/ULC Standard	Gasoline / Ethanol Blends			Diesel / Biodiesel Blends		Heating Fuels Fuel Oil
				Up to E10	Up to E15	Up to E85	Up to B5	B100	
Semi-rigid pipework & nickel/brass fittings	UPP	MH25274	UL971, ULC-S660	UL/ULC	UL/ULC	UL/ULC	UL/ULC	UL	UL/ULC
Semi-rigid pipework & flange fittings	UPP & 90 Series	MH25274	UL971, ULC-S660	UL/ULC	UL/ULC	UL/ULC	UL/ULC	UL	UL/ULC
Semi-rigid pipework & flange fittings	UPP & 06 Series	MH25274	UL971, ULC-S660	UL/ULC	UL/ULC	UL/ULC	UL/ULC	UL	UL/ULC
Semi-rigid pipework & flange fittings	UPP & DN Series	MH25274	UL971, ULC-S660	UL/ULC	UL/ULC	UL/ULC	UL/ULC	UL	UL/ULC
Semi-rigid pipework & stainless steel fittings	UPP & SS Series	MH25274	UL971, ULC-S660	UL/ULC	UL/ULC	UL/ULC	UL/ULC	UL	UL/ULC
Electrofusion couplers, elbows, & elbows	UPP	MH25274	UL971, ULC-S660	UL/ULC	UL/ULC	UL/ULC	UL/ULC	UL	UL/ULC
Polyethylene dispenser sumps	DS3617 ENCORE & DS3617 OVATION	MH27175	ULC/ORD-C107	ULC					ULC
Electrofusion entry boots	304, 303, 305 Series	MH25274	UL971, ULC-S660	UL/ULC	UL/ULC	UL/ULC	UL/ULC		ULC
Entry boots (flexible)	DEB, FEB, FDB, DBB, DDB, FBB Series	MH27175	ULC/ORD-C107	UL/ULC					ULC
Test boots	49 Series	MH25274	UL971, ULC-S660	UL/ULC	UL/ULC	UL/ULC		UL	
Electrofusion fittings	02, 03, 04, 08, 10, G3, G4, G8 Series	MH25274	UL971, ULC-S660	UL/ULC	UL/ULC	UL/ULC		UL	

NOTES

Compatibility is valid for products purchased after March 1, 2016.

Products that were purchased prior to March 1, 2016 may or may not be compatible.

Please contact Franklin Fueling Systems to ascertain compatibility.

Listing is generic in nature and is intended to provide overview of compatibility with blended fuels.

Franklin Fueling Systems follows independent third party standards where available.

Franklin Fueling Systems tests for compatibility if 3rd party standards are not available.

Customers desiring more information on whether their system is compatible should contact Franklin Fueling Systems directly.

Precise information on the original equipment manufacturer date is absolutely essential to determine compatibility.

Generic compatibility listing does not imply products are compatible with blended fuels irrespective of the year of manufacture and installation.

On other compatibility questions not covered by this listing, written approval on product compatibility is needed from Franklin Fueling Systems.

UL = UL Listed

ULC = UL Canada Listed



Franklin Fueling Systems

SUBMERSIBLE PUMPING SYSTEMS

BIOFUEL COMPATIBLE

As the demand for biofuels continues to grow, FE Petro™ brand Alcohol-Gas (AG) optional submersible turbine pumps are at the forefront of motor fuel compatibility. Service station customers demand it, make sure you can provide it.



MagShell™

ALCOHOL GASOLINE
UL APPROVED FOR
0-85% ETHANOL

BIOFUEL SOLUTIONS

Make sure you have the appropriate equipment to meet the biofuel needs of your customers. Check out these benefits available from FE Petro™.



THE PROPER APPROVALS

FE Petro™ brand STPAG and IST models of submersible turbine pumps (STPs) are currently **the only STPs UL listed** for use with gasoline up to **85% ethanol (E85)** and diesel fuel with **up to 20% biodiesel (B20) or 100% biodiesel** according to UL79A and UL79B respectively.



BUILT ON OUR STANDARD PUMPS

FE Petro™ brand Alcohol-Gas optioned submersible turbine pumps feature fuel compatibility **built on the framework of our standard models**. Replacement items like check valves and pump motor assemblies are directly interchangeable, **eliminating the need to stock duplicate items** for standard and Alcohol-Gas optioned STPs.



STOP BIOFUEL DEBRIS

As biofuel use continues to grow, so does the potential for increased debris inside the storage tank. To **stop this debris from entering the pumping system**, use an FE Petro™ brand Intake Filter Screen (IFS). The IFS can be factory installed on STPs and Pump Motor Assemblies (PMAs) or they can be field-retrofitted onto existing FE Petro™ or competitive 4" PMAs.



FILTRATION FOR THE ENTIRE SYSTEM

When installed, an IFS adds only about 1" to the length of the PMA and **provides filtration down to about the size of a grain of sand** (0.009" openings). Through the IFS design, the output performance of the STP/PMA is maintained to that of a standard end bell construction while providing the **added filtration for the entire pumping system**.

FE PETRO®

A Franklin Fueling Systems Brand

franklinfueling.com

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company leaders is feasible and suggests that can be valuable with no discernible risks that will be used.

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www.gilbarco.com



Encore • NJ4

Encore® NL3

Encore® Flexible Fuel Dispensers

Your customers are demanding more and more alternative fuel options. Encore® Flexible Fuel Dispensers help broaden your fuel offering while keeping the fueling experience simple — and safe.

Our newest model, N14, is a Multi-Horse Hybrid Blender, allowing you to offer three grades of blended gasoline, as well as two additional blended grades of alternative fuel that blend through their own individual hoses. Combined with clear signage, this feature prevents mis-fueling at the pump.

With the industry's broadest set of flexible fuel options, Enco offers up to five product selections from one fueling position. It's a smart investment that lets you maximize branding and sales opportunities, while keeping the number of tanks needed to a minimum. All with the unmatched durability and reliability you expect from the industry leader in flexible fuels.

The Encore Flexible Fuel dispenser comes with all the same selling tools and value-added options as a traditional Encore unit.

- > Applause™ TV or Applause Media System on 10.4" color screen
- > Highly secure and powerful CRIND® electronics
- > 2 year parts and labor warranty

Technology with a human touch.

Sensor Application Matrix

Sensor Description	Form #	Page #	Where Used							Category	Fuel Compatibility												
			Dispenser Pan	Spill Containment	STP Sump	Convault Tank	Annular Space	Monitoring Well	Oil/Water Separator tank		ASTM D975	ASTM D7547	ASTM D7467	ASTM D6751	ASTM D975								
DPS Standard Dispenser Pan	794380-322	2	X	X					X		X	X	X	X	X	X ¹	X	X	X	X	X	X	X
CSS Standard Containment Sump	794380-352	3		X	X				X		X	X	X	X	X	X ¹	X	X	X	X	X	X	X
DPO Optical Dispenser Pan	794380-320	4	X	X					X		X	X	X	X	X	X ¹	X	X	X	X	X	X	X
CSO Optical Containment Sump	794380-350	5		X	X				X		X	X	X	X	X	X ¹	X	X	X	X	X	X	X
MSS Mag Sump Sensor	857080-XXX	6	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SSDP Solid State Dispenser Pan	794380-321	7	X	X						X	X	X	X	X	X		X	X	X	X	X	X	X
SSCS Solid State Containment Sump	794380-351	8		X	X				X		X	X	X	X	X		X	X	X	X	X	X	X
Piping Sump	794380-208	9	X	X	X				X		X	X	X	X	X		X	X	X	X	X	X	X
Non-Discriminating Stand-Alone Dispenser Pan	847990-001	10	X	X	X				X		X	X	X	X	X		X	X	X	X	X	X	X
Position-Sensitive *	794380-323	11	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Interstitial for Fiberglass Tanks, Discriminating	794380-343	12				X			X		X	X	X	X	X		X	X	X	X	X	X	X
Interstitial for Fiberglass Tanks	794390-409	13				X			X		X	X	X	X	X		X	X	X	X	X	X	X
Interstitial for Fiberglass Tanks, High Alcohol	794380-345	14				X			X		X	X	X	X	X	X	X	X	X	X	X	X	X
Interstitial for Steel Tanks	794390-4X0	15			X	X			X		X	X	X	X	X		X	X	X	X	X	X	X
Interstitial for Steel Tanks, Position Sensitive ²	794380-333	16		X		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Interstitial for Steel Tanks, High Alcohol	794380-430	17				X			X		X	X	X	X	X	X	X	X	X	X	X	X	X
Interstitial for Steel Tanks, High Alcohol, small footprint	794380-344	18				X			X		X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrostatic Reservoir (Dual Point)	794380-303	19				X					X	X	X	X	X	X ¹	X	X	X	X	X	X	X
Single-Point Hydrostatic Sensor	794380-301	20				X					X	X	X	X	X	X ¹	X	X	X	X	X	X	X
Single Point Mini Hydrostatic Reservoir (High Alcohol)	794380-304	21				X					X	X	X	X	X	X	X	X	X	X	X	X	X
Vapor	794390-700	22					X				X		X	X	X								
Ground Water	794380-62X	23					X				X	X	X	X	X		X	X	X	X	X	X	X
Oil / Water Separator	794690-XXX	24						X			X	X	X	X	X		X				X	X	X

¹Single use only if sensor was exposed to E85 (Test per Sensor Operability Guide [P/N 577013-814] in E-10 or less)

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



Memo

August 29, 2011

To: Veeder-Root ATG Customers
From: Jake Brown, Sr. Product Manager, Global ATG Product Platform
CC: Veeder-Root ATG Customer Service
Re: Ethanol Compatibility on Veeder-Root Automatic Tank Gauge Probes & Sensors
History: Original: March 10, 2009; Amended: August 29, 2011

Periodically we are asked by our customers to confirm whether our probes and sensors are compatible with alternative fuels such as E-85. This memo is to clarify our level of compatibility with E-85.

Due to the corrosive nature of some alternative fuels, not all materials used in the manufacture of Veeder-Root probes and sensors can be used with alternative fuels. The wetted component materials used with the below listed products are deemed by Veeder-Root to be compatible with ethanol 85 applications.

Product	Part Numbers
Mag Plus Stainless Steel Probe for Alternative Fuel	846391-xxx*
Standard Mag Stainless Steel Probe for Alternative Fuel	847391-xxx*
Alternative Fluids Float Kit	846400-xx4
Stainless Steel Position Sensitive Pan/Sump Sensor	794380-323
Microsensor	794380-344
Solid State Stainless Steel Interstitial Sensor for Fiberglass Tanks	794380-345
Solid State Stainless Steel Interstitial Sensor for Steel Tanks	794380-430
Pressurized Line Leak Detector	848481-00x
Digital Pressurized Line Leak Detector	859080-00x
(end of list)	

* Note: Phase-Two Water Detector will not provide accurate readings in Ethanol blends greater than E-15. Older water floats, although compatible, will not operate in Ethanol blended fuels.

You may contact Veeder-Root Technical Support with further questions at 1-800-323-1799 or email to technicalsupport@veeder.com

Regards,

A handwritten signature in black ink that reads "Jake C. Brown".

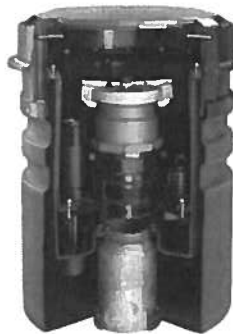
Jake Brown
Sr. Product Manager, Global ATG Product Platform
Veeder-Root Company



Latest News

Defender Series™ Now Fully Biofuel Compatible

09/06/2012



(http://www.franklinfueling.com/products/ssh/SCM_Defender.asp) Franklin Fueling Systems is pleased to announce that all Defender Series Spill Containers (http://www.franklinfueling.com/products/ssh/SCM_Defender.asp) are now fully biofuel compatible.

Through a rigorous continuous improvement process, Franklin has upgraded the design of the Defender Series to include only the highest grade biofuel compatible components, with no change in the list prices. The Defender Series (http://www.franklinfueling.com/products/ssh/SCM_Defender.asp) becomes an even greater value by allowing distributors to carry one spill container for all fuel applications; reducing carrying costs and inventory while increasing turns.

With this new upgrade, Franklin has made some changes to the Defender Series model numbers which will affect ordering. Please also note that part numbers have been set up to include only two cover options - either a cast iron gasketed lid or no lid. If you require a composite or colored lid, you must order the base Defender Series spill container without a lid and order the lid as a separate item.

Americas

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Franklin Fueling Systems Inks Five Year Agreement With Shell
(</americas/news-item/25775/en/>)

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LEADING THE WAY SINCE 1892

71SOM Vapor Tight Overfill Prevention Valve for Alcohol

OPW 71SOM, CARB /EVR Approved for use with E85, vapor-tight Overfill Prevention Valve is designed to prevent the overfill of underground storage tanks by providing a positive shut-off of product delivery. The shut-off valve is an integral part of the drop tube used for gravity filling. The OPW 71SO allows easy installation (without breaking concrete) and requires no special manholes.

The OPW 71SOM is a vapor-tight two-stage shut-off valve. When the liquid level rises to about 95% of tank capacity, the valve mechanism is released, closing automatically with the flow. This reduces the flow rate to approximately 5 gpm through a bypass valve. The operator may then stop the filling process and disconnect and drain the delivery hose. As long as the liquid exceeds the 95% level, the valve will close automatically each time delivery is attempted.

If the delivery is not stopped and the liquid rises to about 98% of tank capacity, the bypass valve closes completely. No additional liquid can flow into the tank until the level drops below a reset point.



71SOM for use with E85

[71SOM Overfill Prevention Valve \(/docs/libraries/product-catalog/retail-fueling/below-ground/underground-equipment/71SOM_Overfill_Prevention_Valve.pdf?sfvrsn=2\)](http://docs/libraries/product-catalog/retail-fueling/below-ground/underground-equipment/71SOM_Overfill_Prevention_Valve.pdf?sfvrsn=2)

Features & Benefits

Materials

- Nickel plated aluminum, anodized aluminum, stainless steel and other compatible materials; no exposed bare aluminum
- Stainless steel lower tube included, no epoxy needed in field

Advantages of Overfill Prevention Compared to Overfill Warning Systems:

- **Completely Automatic Operation** – does not rely on the alertness or speed of response of the delivery attendant for certainty of overfill prevention.
- **Keeps the Top of UST "Dry," per EPA Requirements** – eliminating possible leaks at loose bung fittings and the need for double containment on vent lines.
- **Does Not Rely on Pressure in the UST to Stop Flow** – allowing faster fill times and reducing spill risk.

Gasoil® Quick and Easy Sealant Reference Guide



Soft-Set

- General Purpose, Top-selling Sealant
- Perfect for New Pipes
- Stays Pliable in Cold Temperatures
- Non-Hardening,
- Non-Separating
- Non-Toxic



E-Seal

- Specifically for E10 and E85
- Stays Pliable in Cold Temperatures
- Non-Hardening,
- Non-Separating
- Non-Toxic



Hard-Set

- Hard Setting Sealant
- Assembles Threaded Joints Permanently
- Excellent for Coating Surfaces.
- Impervious to Gasoline
- Flammable



PLS-2

- Ideal for Demanding Pneumatic and LPG Applications



100

- Ideal for use on Systems with 100% Methanol, Ethanol, Alcohol and Highly Corrosive Chemicals
- Soft Setting



JC-30

- For Damaged, Irregular, Mis-cut and Straight Threads
- Vegetable Oil Base
- Thick Consistency, 10-15% more Solids than Conventional Sealants



NT

- Soft Setting for Applications Requiring Grit-Free, Non-PTFE Compound
- No Fillers to Contaminate Gas Lines
- For use when Non-PTFE Sealant is Preferred



FasSeal ATS

Anaerobic Thread Sealant that cures in Absence of Oxygen • Ideal for Refrigeration or other High Vibration Applications • High Speed Curing Time • Vibration Resistant.

TYPE APPLICATIONS USED BY USED ON APPROVALS

Blue Gray Paste with PTFE

Water, Steam, Natural Gas, LPG, Propane, Gasoline, Butane
*Not for Use with Oxygen systems

- Mechanical Contractors
- Plumbers
- Gas Utilities
- Service Station Installers
- Manufacturing Plants

All Metals and Most Plastics

CSA, UL NSF 61 NSF 14

Green Paste with PTFE

Ethanol Blended Gasoline, including E10 and E85 (*NOT 100% Ethanol applications)
*Not for Use with Oxygen systems

- Gas Station Installers

All Metals

UL

Red Varnish

Aliphatic, Aromatic and Chlorinated Solvents
*Not for Use with Oxygen systems

- Auto Industry to Seal Drive Trains, Coat parts
- Contractors Installing Underground Piping, Steam Systems
- Marine Manufacturers

All Metals, Rubber, Porcelain, Wood

UL

Gray Paste with PTFE

Chlorine, Diesel, Jet Fuel, Steam, Dilute Acid, LPG
*Not for Use with Oxygen systems

- Chemical Plants,
- Gas Utilities
- Refineries
- Airlines, Hydraulics
- Tank Trucks

All Metals and Most Plastics

CSA UL

Black Paste

High Concentrations of Alcohol, Solvents, Caustic Chemicals
100% Ethanol
100% Methanol
*Not for Use with Oxygen systems

- Pharmaceutical
- Chemical Companies

All Metals and Fiberglass

*Not for Use on Plastic Pipe

*Threads must be Clean Prior to use

Oyster White Paste with PTFE

Water, Steam, Natural Gas, LPG, Propane, Gasoline, Freon 22 and Hydraulic Fluids
*Not for Use with Oxygen systems

- Plumbers,
- Gas Utilities
- Manufacturing Plants

All Metals

Dark Blue Paste without PTFE

Water, Steam, LPG, Propane, Gasoline
*Not for Use with Oxygen systems

- Propane Companies
- Petroleum Companies

All Metals and Most Plastics

NSF 61 NSF 14

Smooth White Paste with PTFE

Air Conditioning Lines, Hydraulic-Pneumatic Lines, Air Compressor Hoses, Sprinkler Installations
*Not for Use with Oxygen systems

- HVAC
- Refrigeration Companies

Metals
*Not for Use on Plastic Pipe

UL

Phone: 800-846-7325 - Fax: 800-797-2080

#GCC4 JAN - 2015

Chris Epkins
Operations Manager
Illinois Oil Marketing Equipment
850 Brenkman Dr.
Pekin, IL 61554

Dear Mr. Epkins,

Franklin Fueling Systems certifies that Fuel Ethanol, also known commercially as E85, containing 51 % to 83 % ethanol by volume is compatible with APT TMA-4836. Franklin Fueling Systems has based this approval on the ASTM D5798 standard within the UL 2447 listing.

Per ASTM D5798 within the scope section 1.3 This specification formerly covered Fuel Ethanol (Ed70-Ed85) for Automotive Spark-Ignition Engines, also known commercially as E85. The nomenclature "fuel ethanol" has been changed to "ethanol fuel blends" to distinguish this product from denatured fuel ethanol Specification D4806. To facilitate blending of ethanol fuel blends that meet seasonal vapor pressure requirements, a new lower minimum ethanol content has been established.

The APT containments listed above, TMA 4836 is listed under Franklin Fueling Systems UL 2447 listing which incorporates the ASTM D5798 in the general information section for Fuel Rating – Automotive Fuels. For more information on ASTM D5798 follow the link below:

<https://www.astm.org/Standards/D5798.htm>

Sincerely,



Loren Swalheim
Director, Global Technical Service
Franklin Fueling Systems