



Department of Environmental Protection

2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DEP Form: 62-762.901(9)
Form Title: Storage Tank Equipment
Registration Form
Effective Date: July 2019
Incorporated in Rule 62-762.851, F.A.C.

Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name: Gen-Plat LLC Contact Name: Rick Kendrick
Company Address: 5 Oak Dr City, State: Ocala, FL Zip: 34472
E-mail: rkendrick@gen-plat22.com Contact Number: 352-496-0147
Product Name: GP FuelShield
Model Number(s): GPDWT-0710 Product Type: UL142 Double Wall AST
Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), F.A.C.:
62-762 (AST), F.A.C.:

Write a brief description of equipment registration request including product limitations:

This request is to gain FDEP approval to manufacture and sell UL142 AST in the state of Florida. This product will include components with a EQ# supplied third-party companies. The design of said fuel tank is also designed with a tank integrated spill containment box and drain that will be fabricated to the specific need of both region and jurisdiction codes. This specific product is approved through UL not to exceed 120" in width or 48" in height.

Information Checklist (Choose Yes, No, or N/A - Not Applicable):

	Yes	No	N/A
1. Third-party Certification by a Nationally Recognized Testing Laboratory? (Required)	☒	☐	☐
2. Documentation of third-party evaluation that the equipment meets DEP Rules?	☒	☐	☐
3. Documents included about the qualifications of the Nationally Recognized Testing Laboratory?	☒	☐	☐
4. Technical information and drawings included?	☒	☐	☐
5. Installation instructions included?	☐	☒	☐
6. Annual Operability Testing Requirements (Rules 62-761.500, 62-762.501, & 62-762.502 F.A.C.)?	☐	☒	☐
7. Integrity Testing Requirements (Rules 62-761.700, 62-762.701, & 62-762.702, F.A.C.)?	☒	☐	☐
8. Compatible with fuel blends containing >10% ethanol or >20% biodiesel?	☒	☐	☐
9. Has the product been approved or registered in other countries or states? (If so provide list)	☐	☒	☐
10. Any requirements for company-certified installers or trainers?	☐	☒	☐
11. Was this product(s) previously approved or registered by the Department? If yes, EQ- <u>533</u>	☒	☐	☐
12. Any changes or modifications to the equipment since the last submittal to DEP?	☐	☒	☐

Document Information: Provide supporting documents indicated as "Yes" above including this form via email to Tanknotify@floridadep.gov, or documents can be sent to FDEP, Division of Waste Management, 2600 Blair Stone Road, MS 4560, Tallahassee, FL 32399.

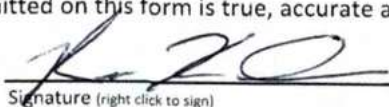
Write a brief description of equipment installation and performance in the U.S.:

The equipment's installation will be done by others on site. This product is fabricated in a manufacturing facility and shipped for the installation by others. This product will have equipment installed on it and will comply with the integrity requirements under rules 62-761.700, 62-762.701, & 62-762.702, F.A.C. Specifically NFPA 30 & NFPA 68/69 for ventilation and explosion protection.

Equipment Registration Certification:

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

Rick Kendrick
Printed Name and Title


Signature (right click to sign)

09/04/2026
Date

For Department Use Only:

Date Application Received: 08/04/2026 Application complete: Yes: ☒ No: ☐

EQ- 1156 Date of complete or incomplete letter sent: 08/06/2026 Date Equipment Requires Renewal: 08/04/2031

Storage tank system equipment requires renewal every 5 years in accordance with subsection 62-762.851(2), F.A.C.

Certificate of Compliance

Certificate Number(s):

UL-US-26128100-0

Report Reference:

MH68230-20260731

Issue Date:

2026-08-03

Issued to:

Gen-Plat LLC
5 Oak Dr., Ocala, FL, 34472, US

This certificate confirms that representative samples of:

EFVT - Special-purpose Tanks

See Addendum Page for Product Designation(s).

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

UL 142, Edition 11, Issue Date 2025-12-12
UL 142A, Edition 2, Issue Date 2025-12-12

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance 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.



David Piecuch
UL Mark Certification Program Manager



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

CERTIFICATE OF COMPLIANCE

Certificate number(s): UL-US-26128100-0
Report reference: MH68230-20260731
Issue Date: 2026-08-03

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

Fixed and Stationary Storage Tanks

Model(s): Tanks

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TEST RECORD NO. 1

SAMPLES:

A sample of the Generator Base Tanks as indicated below and constructed as described herein, was submitted by the manufacturer for examination and test.

240" L x 48" H x 120" W Secondary Containment, Generator Base Tank

GENERAL:

The following tests were conducted:

Test	Paragraph / Clause
TANK LEAKAGE TEST:	UL142 SECTION 44
HYDROSTATIC STRENGTH TEST:	UL142 SECTION 45
TOP LOAD TEST:	UL142 SECTION 46
LIFT LUG TEST:	UL142A SECTION 7.2.4.1.b
GENERATOR LOAD TEST:	UL142A SECTION 7.2.5.1.a

Test results relate only to the items tested.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in UL 142, Steel Aboveground Tanks for Flammable and Combustible Liquids, Edition 11, Issue Date 12/12/2025, and UL 142A, Special Purpose Aboveground Tanks for Specific Flammable or Combustible Liquids, Edition 2, Issue Date 12/12/2025 and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Test Record by:

Devin Hennessey Rose
Engineer Project Associate

Reviewed by:

Brian Orr
Principal Engineer

CONCLUSION

A sample of the products covered by this Report has been found to comply with the requirements covering the category and the products are found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify UL certification or that the product(s) described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the Certification Mark of UL on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of UL LLC. The Certification Mark of UL on the product, or the UL symbol on the product and the Certification Mark of UL on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

This Report is intended solely for the use of UL LLC (UL) and the Applicant for establishment of UL certification coverage of the described product(s) under UL's Follow-Up Service. UL retains all rights, title and interest (including exclusive ownership) in this Report and all copyright therein. The Applicant or its designated agent shall not disclose or otherwise distribute this Report or its contents to any third party, except as required for purposes of compliance with laws, regulations, or other existing agreements or schemes in which UL is currently a participant. Any other use of this Report including, without limitation, evaluation or certification by a party other than UL is prohibited and renders the Report null and void. UL shall not incur any obligation or liability for any loss, expense, or punitive damages, arising out of, or in connection with, the use or reliance upon the contents of this Report to anyone other than the Applicant as provided in the agreement between UL and Applicant. Any use or reference to UL's name or certification mark(s) by anyone other than the Applicant in accordance with the agreement is prohibited without the express written approval of UL. Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. UL shall not otherwise be responsible to anyone for the use of or reliance upon the contents of this Report.

Report by:

Reviewed by:

Devin Hennessey Rose
Engineer

Brian Orr
Principal Engineer

File MH68230
Project 4792165026

July 31, 2026

REPORT

on

SPECIAL-PURPOSE TANKS

Gen-Plat LLC
Ocala, FL, US

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PRODUCT COVERED:

USL - Secondary containment generator base tanks

GENERAL INFORMATION:

Generator base tanks are designed for combined combustible fuel storage and structural support for diesel or turbine engine power generators, and are intended to be installed in accordance with NFPA 37, "Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines" and NFPA 110, "Standard for Emergency and Standby Power Systems" and requirements identified in the Section General of this file.

Combustible liquid fuels are typically Class II types such as diesel, kerosene, or turbine oils used in engine generators or micro turbines. Gasoline, gasoline/alcohol blends or similar flammable liquid fuels are not covered.

Generator Base Tanks may be provided with tank supports, lift lugs and other accessories as identified in the Description.

Generator Base Tanks are evaluated in accordance with the requirements of:

UL 142, Steel Aboveground Tanks for Flammable and Combustible Liquids, Edition 11, Issue Date 12/12/2025

UL 142A, Special Purpose Aboveground Tanks for Specific Flammable or Combustible Liquids, Edition 2, Issue Date 12/12/2025

Note: All references to UL 142 or 142A refer to the editions above unless otherwise noted.

See Section General for additional details of tank parameters, intended uses, installation codes, engineering considerations and other basic information.

GENERAL TANK MATERIAL, DESIGN and CONSTRUCTION REQUIREMENTS:

See Section General for basic details of tank materials, and other common construction requirements for all special purpose tank types including:

Materials & Welding	Joint & Connections
Venting & Openings	Manways & Gaskets
Lifting Devices	Tank Supports
Gauging Equipment	Protective Coatings
Heating Coils	Detection Sumps
Marking Methods	Installation Instructions

In cases where the Section General requirements conflict with the referenced Standard, the referenced standard(s) above shall used.

GENERATOR BASE TANK PRODUCTION TESTS, INSTRUCTIONS and MARKINGS:

See Section General for details of tank Production Tests, Marking Methods and Installation Instructions. In addition, specific Engineering Markings and Certification Markings for Generator Base Tanks shall be as follows:

All Generator Base Tank Types

Listing Marks	United States Listing
Marking Elements	UL Certification Symbol, "Listed", a Control #, and
Tank Type	["Secondary Containment Generator Base Tank"]

Primary & Secondary Containment Types

Engineering Marks	UL 142 Sec/Par/Item or Special Purpose Tank Marking
Primary Tank & Options	55.1 (general) 55.2 (compartments) [55.5 (rectangular 15 psi exc)]
Secondary Tank & Options	55.1 (general) 55.2 (compartments) 55.3 (secondary) [48.5 (rectangular 15 psi exc)]
Generator Base Special Markings (*)	"Diesel Fuel Only" "Max ____ lb Load Capacity" (!) ["Max ____ lb Lift Lug Load" (near lift lugs if supplied)]
Special Features & Options	55.1.1 e) (combo n & e vent)
Miscellaneous	

(*) Marked Ratings based on design as described in GENERATOR BASE TANK CONSTRUCTION DETAILS

(!) or equivalent wording is permitted

GENERATOR BASE TANK CONSTRUCTION DETAILS:

All Generator Base Tanks and applicable accessories shall be designed and constructed in accordance with the illustration drawings referenced in this Section:

Generator Base Tank Constructions	
4369.60 Gallon 240" L x 48" H maximum x 120" W maximum Secondary Containment, Generator Base Tank	☐ ILL 1 ☐ Generator Load Rating: 2,000 lbs/stiffener (4,000 lbs/stiffener pair) ☐ Lift lug rating: 20,250 lb/lug ☐ Required Emergency Vent Size: Based on Table 8.1 of UL 142 ☐ Primary Tank Thickness (side, bottom): 10 GA (.135") ☐ Tank Top Thickness: 7 GA (.1875") ☐ Secondary Tank Thickness (side, bottom): 7 GA (.1875") • Maximum Baffle Span: 24 inches center-to-center • Minimum Baffle Thickness: 10 GA (.135") ☐ Tanks of this design may be built in unlimited length provided the maximum spacing of strengthening members such as baffles, gussets, and/or stiffeners do not exceed those shown in the illustration.



SHEET C- COVER SHEET
SHEET 1- SECONDARY PARTS
SHEET 2- SECONDARY TOP SHEETS
SHEET 3- SECONDARY BOTTOM SHEETS
SHEET 4- PRIMARY BOTTOM SHEETS
SHEET 5- PRIMARY PARTS
SHEET 6- PRIMARY PARTS
SHEET 7- SWITCHES AND FITTINGS
A1- OVERALL ASSEMBLY VIEW
A2- SECONDARY ASSEMBLY
A3- PRIMARY ASSEMBLY
A5- TANK BOTTOM VIEW

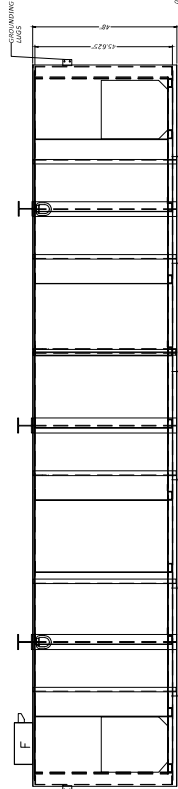
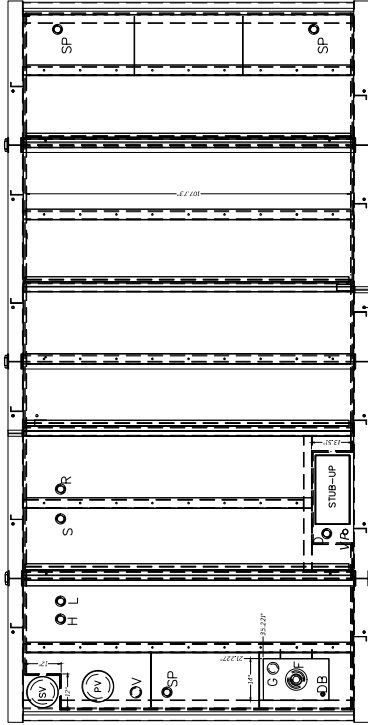
HIGH LEVEL ALARM SETPOINT (%)	90%
LOW LEVEL ALARM SETPOINT (%)	35%
OFPV	90% 4,320 GAL
OFPV SWITCH HEIGHT BELOW TOP SHEET	3.125"

TANK TYPE:
SECONDARY TANK DIMENSIONS: 240"x120" x 48"
PRIMARY TANK DIMENSIONS: 230.75"x107.75" x 44.125"

F. 2. OVERFILL PREVENTION VALVE. 5" NPT
G. FUEL SUPPLY. 2" NPT
H. LEAK DETECTOR. 2" NPT
I. FUEL SUMP. 2" NPT (W/IT DROP TUBE)
J. FUEL RETURN. 2" NPT (W/IT DROP TUBE)
K. SPILL BOX DRAIN. 1/2" HALF COUPLING
L. FUEL RETURN. 2" NPT (W/IT DROP TUBE)
M. PRIMARY EMERGENCY VENT. 8" NPT
N. SECONDARY EMERGENCY VENT. 8" NPT
O. PRIMARY EMERGENCY VENT. 8" NPT
P. HIGH FUEL LEVEL SENSOR (MADISON M7000 EQ#682). 2" NPT
Q. LOW FUEL LEVEL SENSOR (MADISON M7000 L). 2" NPT

SP - SPARE - 2" NPT
VP - SECONDARY VACUUM PORT - 1/2" NPT

NOTES:
1. THIS IS A STANDARD LEGEND. SOME FITTINGS MAY NOT APPLY
2. TANK FITTING SIZES SHOWN ON PLAN ARE OPENING SIZES



PRIMARY TANK LENGTH: 230.75"									
PRIMARY TANK WIDTH: 107.75"									
PRIMARY TANK HEIGHT: 44.125"									
TANK VOL: 4639.60									
CHART INCREMENT		5"		G P I: 105.147					
INCHES	GALLONS	INCHES	GALLONS	INCHES	GALLONS	INCHES	GALLONS	INCHES	GALLONS
.5	52.57	22.5	2365.80						
1	105.15	23	2418.37						
1.5	157.72	23.5	2470.95						
2	210.29	24	2523.52						
2.5	262.87	24.5	2576.09						
3	315.44	25	2628.67						
3.5	368.01	25.5	2681.24						
4	420.59	26	2733.81						
4.5	473.16	26.5	2786.39						
5	525.73	27	2838.96						
5.5	578.31	27.5	2891.53						
6	630.88	28	2944.11						
6.5	683.45	28.5	2996.68						
7	736.03	29	3049.25						
7.5	788.60	29.5	3101.83						
8	841.17	30	3154.40						
8.5	893.75	30.5	3206.97						
9	946.32	31	3259.55						
9.5	998.89	31.5	3312.12						
10	1051.47	32	3364.69						
10.5	1104.04	32.5	3417.27						
11	1156.61	33	3469.84						
11.5	1209.19	33.5	3522.41						
12	1261.76	34	3574.99						
12.5	1314.33	34.5	3627.56						
13	1366.91	35	3680.13						
13.5	1419.48	35.5	3732.71						
14	1472.05	36	3785.28						
14.5	1524.63	36.5	3837.85						
15	1577.20	37	3890.43						
15.5	1629.77	37.5	3943.00						
16	1682.35	38	3995.57						
16.5	1734.92	38.5	4048.15						
17	1787.49	39	4100.72						
17.5	1840.07	39.5	4153.29						
18	1892.64	40	4205.87						
18.5	1945.21	40.5	4258.44						
19	1997.79	41	4311.01						
19.5	2050.36	41.5	4363.59						
20	2102.93	42	4416.16						
20.5	2155.51	42.5	4468.73						
21	2208.08	43	4521.31						
21.5	2260.65	43.5	4573.88						
22	2313.23	44	4626.45						

1. TANK SHALL BE FABRICATED IN ACCORDANCE WITH UL 142, PROJECT SPECIFICATIONS, AND ALL APPLICABLE GOVERNING CODES AND AUTHORITIES HAVING JURISDICTION.
2. TANK SHALL BE SUITABLE FOR USE AS A GENERATOR SUB-BASE / BELLY TANK SUPPORTING THE GENERATOR ASSEMBLY SHOWN ON THE DRAWINGS.

3. FABRICATOR SHALL VERIFY ALL DIMENSIONS, GENERATOR SUPPORT REQUIREMENTS, MOUNTING LOCATIONS, FITTING SIZES, FITTING LOCATIONS, AND ACCESSORY LOCATIONS PRIOR TO FABRICATION.
4. ALL WELDS SHALL BE CONTINUOUS FULL WELDS UNLESS NOTED OTHERWISE
5. PRIMARY TANK JOINTS SHALL BE LIQUID-TIGHT. SECONDARY CONTAINMENT CONSTRUCTION, WHERE APPLICABLE, SHALL BE LIQUID-TIGHT AND SUITABLE FOR INTENDED SERVICE.
6. PROVIDE ALL REQUIRED STIFFENERS, REINFORCING PADS, SUPPORT MEMBERS, LIFTING PROVISIONS, MANWAY COVERS, MANWAY FLANGES, AND ATTACHMENTS IS REQUIRED FOR A COMPLETE AND STRUCTURALLY ADEQUATE ASSEMBLY.
7. INSTALL ALL VENTS, FILL, SUPPLY, RETURN, OVERFLOW, DRAIN, GAUGE, INSPECTION, AND LEAK-DETECTION FITTINGS AS SHOWN.
8. THREADED FITTINGS SHALL BE NPT UNLESS NOTED OTHERWISE.
9. TANK SHALL BE TESTED IN ACCORDANCE WITH UL 142 AND PROJECT REQUIREMENTS PRIOR TO SHIPMENT.
10. PROVIDE ALL REQUIRED LABELS, WARNING LABELS, AND NAMEPLATES IN ACCORDANCE WITH UL 142 AND PROJECT REQUIREMENTS.
11. CAP PLUG, OR OTHERWISE PROTECT ALL THREADED OPENINGS DURING FABRICATION, STORAGE, AND SHIPMENT.
12. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY.
13. NOTIFY DESIGNER / ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION.

1. ALL WELDING SHALL BE PERFORMED BY QUALIFIED PERSONNEL USING APPROVED PROCEDURES.
2. ALL WELDS SHALL BE CONTINUOUS FULL WELDS UNLESS NOTED OTHERWISE.
3. WELDS SHALL BE FREE OF CRACKS, UNDERCUT, OVERLAP, POROSITY, PINHOLES, EXCESSIVE SPATTER, AND OTHER VISIBLE DEFECTS.

5. GRIND WELDS SMOOTH WHERE REQUIRED FOR PROPER FIT, FINISH, OR ATTACHMENT OF ACCESSORIES OR STRUCTURAL MEMBERS.
6. INTERMITTENT WELDS SHALL BE USED ONLY WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.

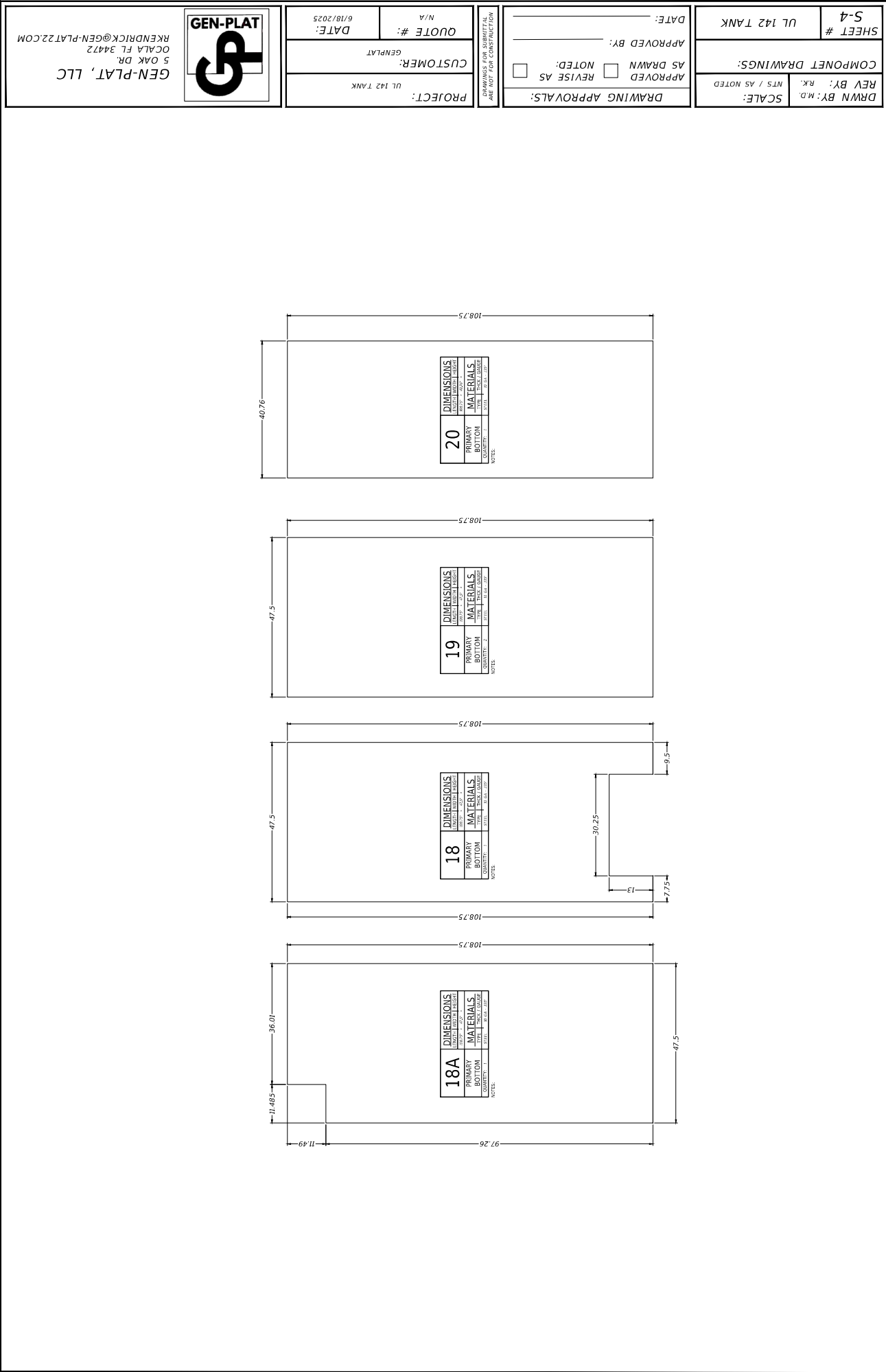
1. ALL FITTING SIZES SHALL BE AS INDICATED ON THE DRAWINGS AND COORDINATED WITH GENERATOR MANUFACTURER REQUIREMENTS.

2. ALL THREADED FITTINGS SHALL BE NPT UNLESS NOTED OTHERWISE.
3. PROVIDE FITTINGS FOR EMERGENCY VENT, NORMAL VENT, FILL, SUPPLY, RETURN, OVERFLOW, DRAIN, LEVEL GAUGE, INSPECTION OPENING, AND LEAK DETECTION AS SHOWN.
4. FITTING LOCATIONS SHALL BE COORDINATED TO MAINTAIN REQUIRED SERVICE CLEARANCES AND ACCESSIBILITY AFTER GENERATOR INSTALLATION.
5. VENT, FILL, AND OVERFLOW FITTINGS SHALL BE LOCATED AND ORIENTED TO AVOID INTERFERENCE WITH GENERATOR, RAILS, ENCLOSURE FRAMING, AND ELECTRICAL STUB-UPS.
6. SECONDARY CONTAMINANT / INTERSTITIAL MONITORING FITTINGS SHALL BE PROVIDED WHERE REQUIRED BY THE DRAWINGS AND PROJECT SPECIFICATIONS.

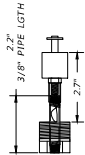
TANK SHALL BE FABRICATED AS A SECONDARY-CONTAINMENT ASSEMBLY WITH PRIMARY AND SECONDARY TANK CONSTRUCTION IN ACCORDANCE WITH UL 142. PROVIDE INTERSTITIAL SPACE AND LEAK-DETECTION PROVISIONS AS INDICATED ON THE DRAWINGS AND REQUIRED BY PROJECT SPECIFICATIONS.

TANK TOP, MOUNTING MEMBERS, AND SUPPORT STRUCTURE SHALL BE FABRICATED TO SUPPORT THE GENERATOR ASSEMBLY LOADS SHOWN OR SPECIFIED, INCLUDING DEAD LOAD, OPERATING LOAD, AND ATTACHMENT LOADS, WITHOUT DEFORMATION DETRIMENTAL TO TANK OR EQUIPMENT PERFORMANCE.

DRWN BY: M.D. SCALE: _____ REV BY: R.K. NTS / AS NOTED	COMPONENT DRAWINGS: UL 142 TANK	SHEET # C
DRAWING APPROVALS:		
APPROVED ☐ AS DRAWN NOTED ☐ REVISE AS	APPROVED BY: _____ DATE: _____	
DRAWINGS FOR SUBMITTAL ARE NOT FOR CONSTRUCTION		
PROJECT: UL 142 TANK	CUSTOMER: GENPLAT	QUOTE #: N/A DATE: 6/18/2025



HIGH LEVEL SWITCH
ALARM SET POINT: 90%



LOW LEVEL SWITCH
ALARM SET POINT: 35%



RUPTURE BASIN SWITCH



SHEET # S-7		UL 142 TANK	
COMPONENT DRAWINGS:			
DRAWN BY: M.D.		SCALE:	
REV BY: R.K.		NTS / AS NOTED	
APPROVED		AS DRAWN	
NOTED:		REVIS AS	
APPROVED BY:		DATE:	
DRAWING APPROVALS:			
DRAWINGS FOR SUBMITTAL ARE NOT FOR CONSTRUCTION			
PROJECT: UL 142 TANK		CUSTOMER: GENPLAT	
QUOTE #: N/A		DATE: 6/18/2025	
GEN-PLAT		5 OAK DR. OCALA FL 34472 RKENDRICK@GEN-PLAT22.COM	

SHEET # A-1		UL 142 TANK	
COMPONENT DRAWINGS:			
DRWN BY: M.D.	SCALE:	REV BY: R.K.	NTS / AS NOTED
APPROVED		APPROVED BY: _____	
AS DRAWN		DATE: _____	
NOTED: ☐		REVIS AS ☐	
DRAWING APPROVALS:			
DRAWINGS FOR SUBMITTAL ARE NOT FOR CONSTRUCTION			
PROJECT: UL 142 TANK		CUSTOMER: GENPLAT	
QUOTE #: N/A		DATE: 6/18/2025	

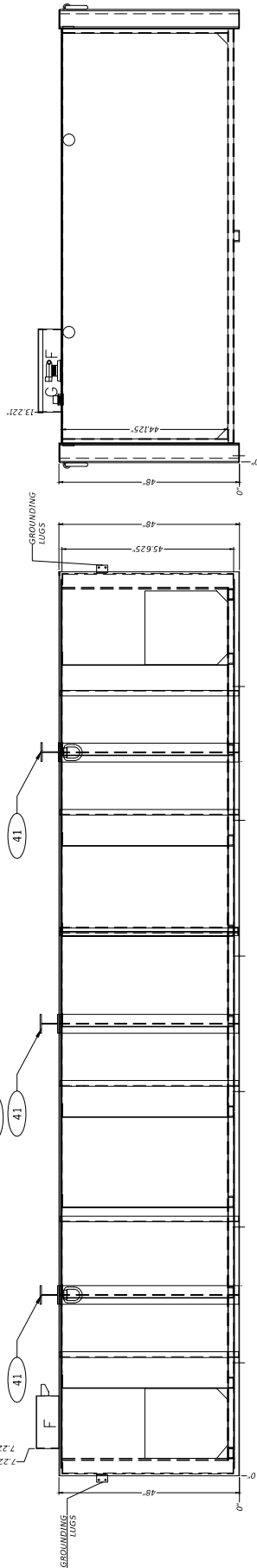
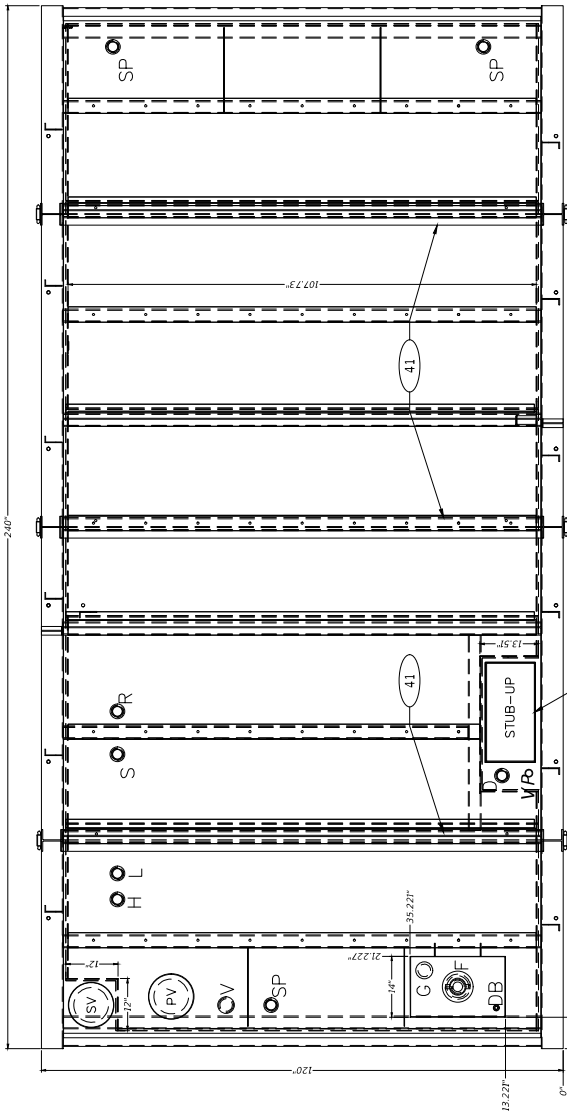
TANK DATA

TANK TYPE: UL 142
TANK DIMENSIONS: 240"x120"x48"
PRIMARY TANK DIMENSIONS: 230.75"x107.75"x44.125"

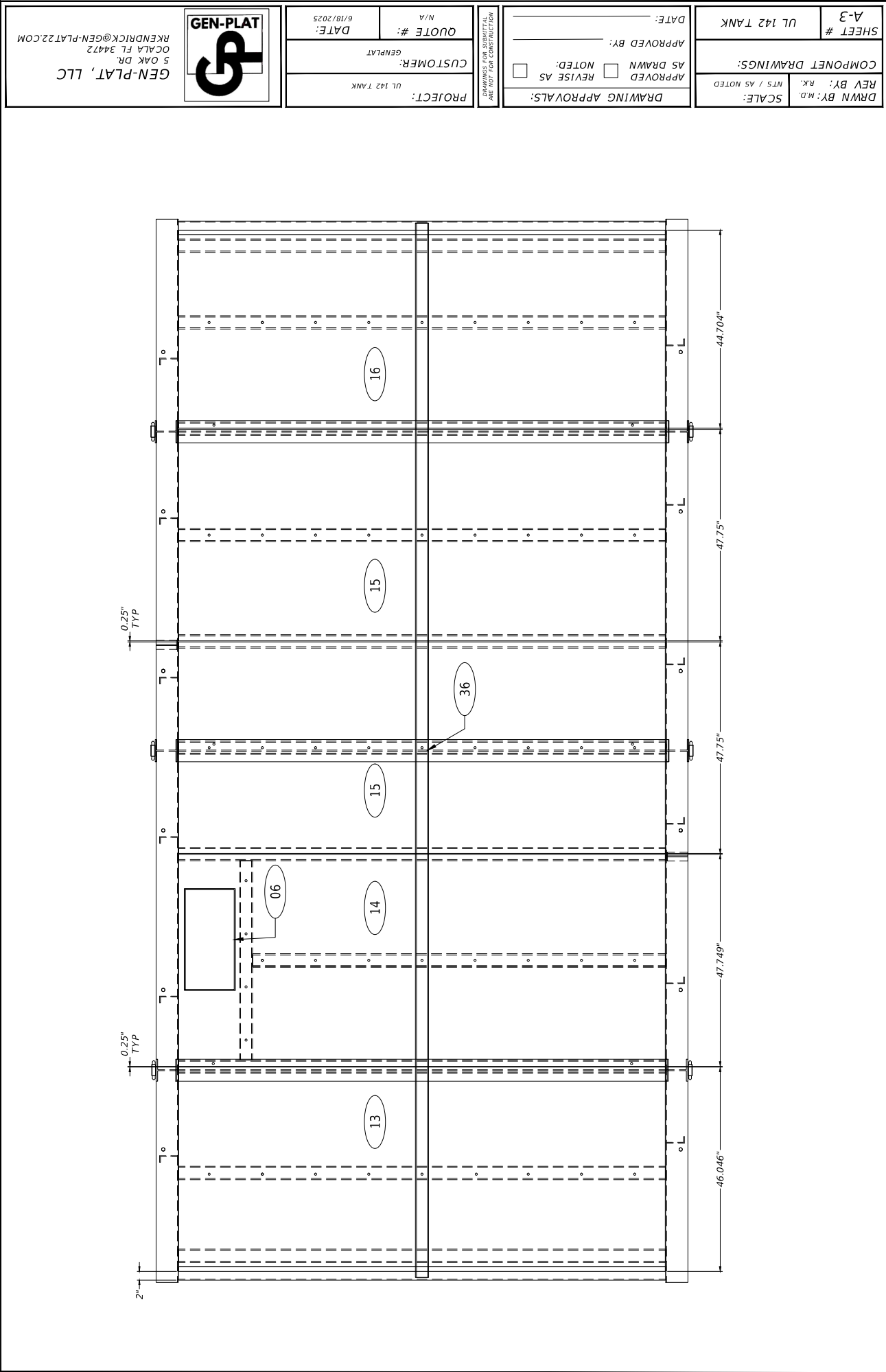
TANK FITTING LEGEND

F - 2" OVERFILL PREVENTION VALVE - 4" NPT
D - 2" DRAIN VALVE - 2" NPT
R - 2" FUEL RETURN VALVE - 2" NPT
S - 2" FUEL SUPPLY VALVE - 2" NPT
DR - 2" DRAIN BOX DRAIN - 1/2" HALF COUPLING
SV - 2" SECONDARY EMERGENCY VENT - 8" NPT
H - HIGH FUEL LEVEL SENSOR (MADISON N-7000 EOW682) - 2" NPT
LP - LOW FUEL LEVEL SENSOR (MADISON N-7000) - 2" NPT
VP - SECONDARY VACUUM PORT - 1/2" NPT

NOTES:
1. TANK FITTING LEGEND: SOME FITTINGS MAY NOT APPLY
2. TANK FITTING SIZES SHOWN ON PLAN AND ELEVATION VIEWS



GEN-PLAT, LLC
5 OAK DR.
OCALA FL 34472
RKENDRICK@GEN-PLAT22.COM



[illegible]

DATA SHEET

Miniature PBT Float Switch

M7000 Series

The M7000 miniature liquid level float switch has a PBT stem and a Buna-N float and is a superior choice to basic nylon float switches. The Buna-N float provides better buoyancy and is typically suitable for use in oils, water, aromatic hydrocarbons, diluted acids, and bases. This float switch is ideal for single point float switch level detection when needing to sense a high or low fluid level. The M7000 is not recommended for use in hot water or soap water applications above 149°F / 65°C.

Applicable Industries

- Oil tanks
- Hydraulic oil level detection
- Low or high alarms or shut-off switches

Features

- Single point float switch level detection when needing to sense a high or low fluid level

Material

- Stem: PBT
- Float: Buna-N

Specifications

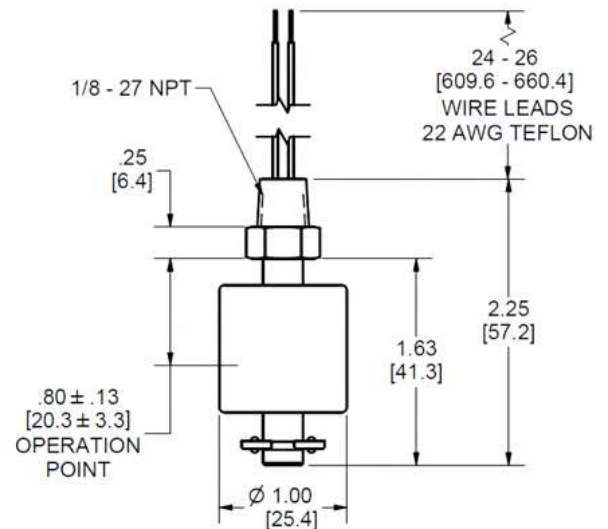
- Mounting: 1/8" NPT
- Max. temperature: 221°F / 105°C
- Max. pressure: 150 psi
- Switch rating: 30 watt, 240V max. (AC/DC), SPST

Part Number	Minimum Media SG	Lead Wires	Approvals
M7000	0.56	24", 22 AWG, Teflon Insulated (standard)	CE, UL, CSA, FLORIDA DEP EQ682

NOTE: Other fittings and voltages are available. [Contact us](#) to discuss your application.

- Electrical ratings
Switches are rated for resistive loads. The table below represents the UL guidelines for current (amperes resistive) at different voltages.

AC Voltage		DC Voltage	
30 VA nominal at 120V AC	0.28 amps max	30 watt nominal at 24V DC	0.28 amps max
30 VA nominal at 240V AC	0.14 amps max	30 watt nominal at 120V DC	0.07 amps max



Custom Configurations

Contact us directly for custom solutions.
Email: info@madisonco.com

Electrical Considerations

When using Madison level switches, it is important to consider the application’s electrical parameters. Our level switches utilize reed switch technology, which are glass encapsulated, magnetically actuated switches. Madison generally provides electrical ratings for resistive loads; however, where the maximum current of the load permits, the switches are capable of controlling devices such as motors, solenoids or coils that produce capacitive or inductive electrical loads. Where possible, Madison recommends the use of general-purpose/isolation relays or controllers to protect the switch.

Protection Techniques and Common Failure Modes

Reed Switch protection is the most successful method of increasing the performance and life of your level sensor. Since every application varies, it is important to understand your protection options. The life of the reed switch is typically 1 million cycles, within rated load conditions. The table below is a guide to suggested protection techniques and common failure modes associated with each load type.

Load	Load Example	Protection	Diagram	Common Failure Modes	Failure Mode Description
Resistive (DC)	Indicator Lamp, Heaters	Current Limiting Resistor	A	In-rush Current (Switching)	In-rush current exceeds rating and welds switch closed
				Over-Current (Carry)	Carry-current exceeds rating and switch welds or burns open like a fuse
Inductive & Capacitive (DC)	Relay Coil, Solenoids, Motor	Reversing Diode	B	Over-Voltage (Arcing)	Voltage arcing during switching welds contacts closed
Inductive & Capacitive (AC or DC)		Resistor & Capacitor Network	C		
Resistive, Inductive & Capacitive (AC or DC)	Indicator Lamp, Heaters, Relay Coil, Solenoids, Motor	Varistor or MOV	D	Over-Voltage (Arcing)	Transients voltage spikes exceed breakdown voltage and weld switch closed

Capacitive Load

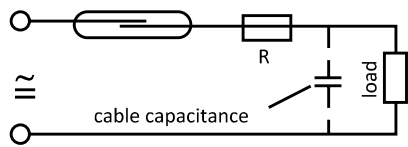


Diagram A: Current Limiting Resistor

Inductive Load

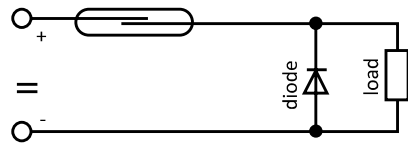


Diagram B: Reversing Diode

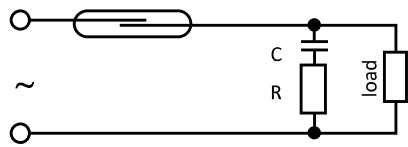


Diagram C: RC Network

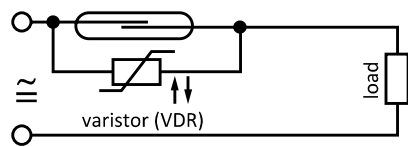


Diagram D: Varistor or MOV

For DC circuits: Insert a 1N4004 diode across the load (i.e.: relay coil) with the cathode end (marked with circular line) connected toward the positive side. This way the diode conducts only when the field collapses. General rule is to use a diode with a voltage rating at least three times the circuit voltage. A 1N4004 has a rating of 1 amp continuous, 30 amp surge, 400V max. Refer to diagram B.

For typical 120V AC circuits: Insert a 50 to 100 ohm, 1/2 watt Resistor in series with a .1 micro farad 400 to 600 volt capacitor across the switch. The capacitor is a high impedance to 60 hertz, but is essentially a short circuit to high frequencies of generated voltages. Alternately, a varistor V130LA10A by itself across the switch will also work for 120V AC. Refer to diagram D.



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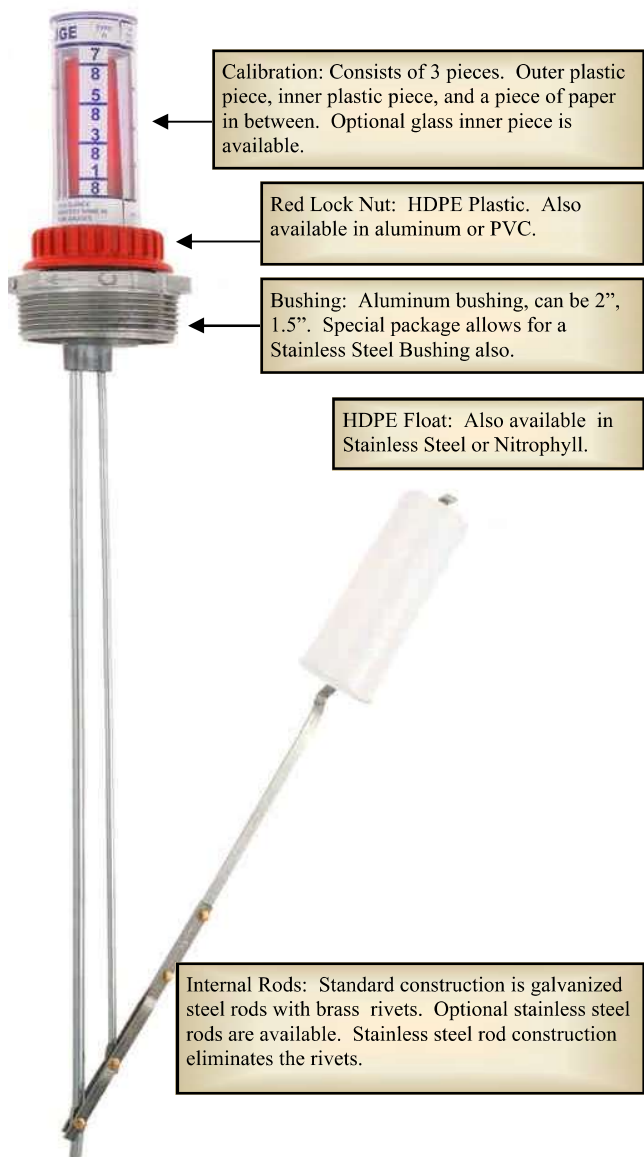
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Outside the USA: +1.203.488.4477

www.madisonsensors.com





The Therma Gauge—Type H



Calibration: Consists of 3 pieces. Outer plastic piece, inner plastic piece, and a piece of paper in between. Optional glass inner piece is available.

Red Lock Nut: HDPE Plastic. Also available in aluminum or PVC.

Bushing: Aluminum bushing, can be 2", 1.5". Special package allows for a Stainless Steel Bushing also.

HDPE Float: Also available in Stainless Steel or Nitrotyll.

Internal Rods: Standard construction is galvanized steel rods with brass rivets. Optional stainless steel rods are available. Stainless steel rod construction eliminates the rivets.

Part Number—
H-(size opening)-(tank depth)+(ext)-(list options)
Sample—H-2-48+12

What it is:

Top mounted liquid level gauge that can measure from 6 inches to 144 inches in depth. Bushing size can be 2" or 1.5". Gauges are custom made in house to fit your tank. Can also accommodate for double walls and pipe risers. The Type H Gauge has a 2 piece bushing construction that allows you to aim your swing arm away from walls, corners, and other obstructions.

Additional Options:

Audible Alarm Accessory: This add on feature can turn your mechanical gauge into an audible Hi or Lo level alarm.

LED At-A-Glance Accessory: Another add on feature. This can give your mechanical gauge remote reading capability.

Gauge Guard: A cover that protects the exposed plastic components on top of the gauge.

Material Choices and Limitations:

Standard choices are listed on picture to the left.

Stainless Steel Floats: Maximum tank depth is reduced to 120 inches.

Material Packages / Gauge Packages:

All SS Model—It comes standard with Glass Calibration, Aluminum Locking Nut, Stainless Steel Bushing, Stainless Steel Rods, and Stainless Steel Floats.

All Plastic Model—Type PH—This model comes standard with Glass Calibration, PVC Gauge Guard, PVC Bushing, PEEK Plastic Rods, HDPE Plastic Float.

Krueger Sentry Gauge
1873 Siesta Lane
Green Bay, WI 54313

www.ksentry.com



Contact us for more info or a local distributor:

Ph: 920-434-8860

Fax: 920-434-8897

Email: info@ksentry.com

Model 9095AA 2" Overfill Prevention Valve

SPECIFICATION SHEET

Application

The 9095AA 2" series overfill prevention valve is designed to prevent overfilling storage tanks by providing a positive shut-off during a pressurized fill.

Features

- Installs directly onto a 4" riser or top mounted spill container
- Minimum shut-off height is 2" from the tank top
- 2.35" of float height adjustment
- Drop tube adaptor accepts 2" drop fill tubes (Morrison 419)
- Full flow to shut-off point, cushioned closure eliminates shock
- Integral pressure relief
- Integral anti-siphon function
- Optional test mechanism

Materials of Construction

- Direct fill adaptor...passivated aluminum
- Remote adaptor...ductile iron, powder coated
- Shaft, linkage and hardware...stainless steel
- Lower pipe nipple...e-coated steel
- Drop tube adaptor...passivated aluminum
- Body...passivated aluminum

Operational Criteria

- Minimum 5 PSI flow requirements
- Maximum operating pressure is 100 PSI
- Maximum viscosity of 3000 centistokes (See examples on next page)
- A tight fill connection is required for the valve to operate
- The estimated flow rate is 230 GPM at 10 PSI pressure drop (See flow curve)

Code Compliance

ULC-S661-10 listed, NFPA 30, 30A, UFC, IFC, PEI /RP200, PEI/RP 600, Florida DEP EQ-851, and California EVR models available



9095AA0200
(2")

RECENTLY TESTED AND
APPROVED FOR FLUIDS
WITH VISCOSITIES UP TO
3000 centistokes

NOTE

For use on clean liquids only.

NOTE

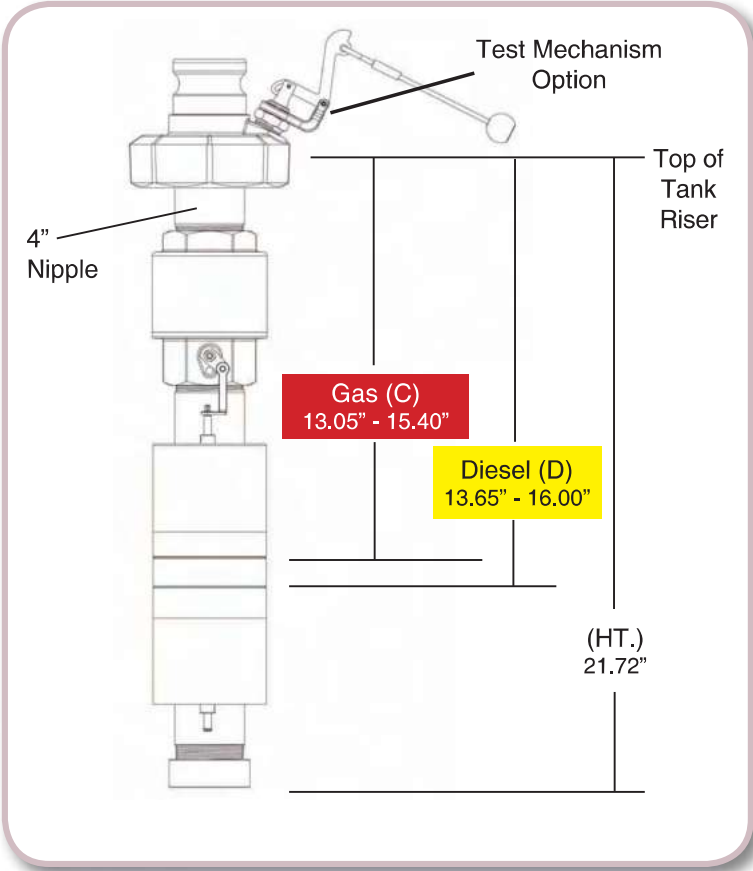
9095A models have been replaced with 9095AA models.



Item Number	Size	Description	Tank Opening	Weight (lbs)
9095AA0200 AV	2"	Valve with 2" male quick disconnect x 4" female threads	4"	14.10
9095AA4000 AV	2"	Valve with 3" male quick disconnect x 4" female threads	4"	16.80
9095AA3200AVEVR	2"	Valve with 2" female threads x 4" female threads	4"	14.10
9095AA4200AVEVR*	2"	Valve with 3" female threads x 4" female threads	4"	21.25
9095AA5200AVEVR	2"	Valve with 2" dry disconnect x 4" female threads	4"	21.25
9095AA9200AVEVR	2"	Valve less adaptor	4"	14.10
9095ATM0100 AM	2" & 3"	Mechanical test mechanism kit for 9095AA Series (except 9095AA4000 AV)		.50
9095ATM1000 AK	2" & 3"	Mechanical test mechanism kit for 9095X Series and 9095AA4000AVEVR		
9095A-KIT91 AV	2"	Includes 9095AA0200 AV, 2" x 6' 419 drop tube, and 305C cap		
9095ATKIT91 AV	2"	Same as 9095A-KIT91 AV, with test mechanism		

*No mechanical test mechanism available for 9095AA4200 AVEVR.

Diagram and flow curve on next page.



EXAMPLES OF OIL & MINIMUM TEMPERATURE
FOR USE WITH 9095AA

Oil Type	Temp (°F)	CentiStokes (cSt)
15W-40	28	2720
10W-40	25	2800
10W-60	28	2850
5W-40	25	2750
0W-30	15	2900
SAE 30	28	2950

2 INCH 9095AA FLOW CURVE (CV=74)

