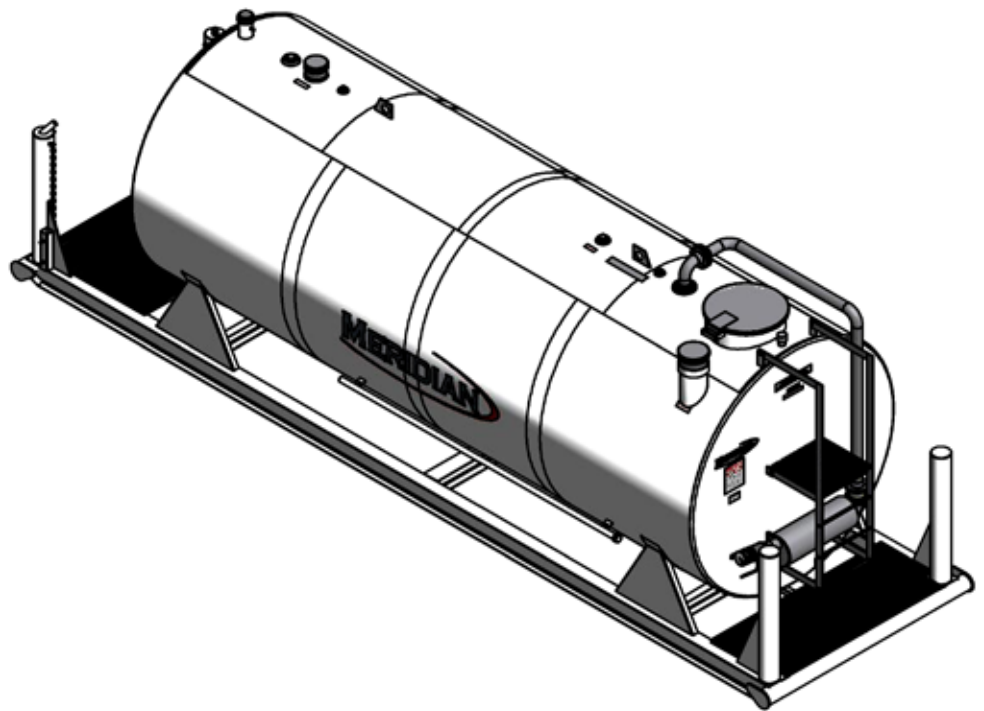


MERIDIAN

OPERATOR'S MANUAL



15, 25 & 35,000L DW Fuel Tanks

CAN-ULC-S601-07

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Thank You!

Thank you for purchasing the Meridian 15, 25, or 35,000L Fuel Tank and putting your trust in our hands. Setting the standard for excellence in the storage and fuel handling industry our double wall fuel tanks meet and exceed all safety and environmental standards. Built with meticulous attention to detail by an enthusiastic and skilled production team our best references are thousands of customers, like you, who have placed their trust in our superior design and technology.

Codes, Regulations and Guidelines

Built to exacting standards your 15, 25, or 35,000L Fuel Tank is designed to give years of trouble free use. To ensure it provides that service, **it is critical all operators read this entire manual before attempting to install or operate your new tank.** If you become familiar with all maintenance and safety procedures, pay close attention to safety labels and diagrams your Meridian Fuel Tank will provide years of environmentally safe trouble free service.

Fuel storage tanks fall under a variety of governmental jurisdictions; therefore the following references in this manual are provided only as a general outline. You may be subject to different legislation and governing bodies in your specific location.

IT IS THE TANK OWNER'S RESPONSIBILITY TO DETERMINE WHAT CODES AND REGULATIONS MUST BE FOLLOWED IN YOUR LOCAL AREA

Meridian Manufacturing assumes no responsibility for any errors that may appear in this manual and shall not be liable under any circumstances for incidental, consequential or punitive damages in connection with, or arising from, the use of this manual. Meridian Manufacturing reserves the right to make changes to this manual at any time without obligation or notice.

IMPORTANT

Dependent on the pump and accessory options you ordered additional operator manuals are included with the delivery of your tank. All operators must read and become familiar with these manuals before attempting to install or operate the new tank. Failure to follow these procedures may invalidate any or all warranties.

Personal Safety

Throughout this manual and on fuel tank decals, in accordance with ISO standards, you will find the signal words “**DANGER**”, “**WARNING**”, and “**CAUTION**” followed by specific instructions. These instructions are there to protect your personal safety and the personal safety of those working with you. Take the time to read these statements and follow the instructions.



Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious bodily injury.



Indicates a potentially hazardous situation which, if not avoided **COULD** result in minor or severe bodily injury.



Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate bodily injury.



SAFETY ALERT SYMBOL

Machine Safety

In addition to notes on personal safety the following text notes on Machine Safety will appear as related to machine safety. Following these instructions will help the user avoid possible machine damage.

IMPORTANT: indicates a situation which, if not followed, **WILL** involve deterioration or damage to equipment.

General Notes

The following general notices also appear in the manual. These notices draw attention to correct procedures that will assist the operator.

NOTE: Indicates an important installation, operation and/or maintenance procedure which if not followed **MAY** result in deterioration or damage to the equipment.

ATTENTION: Indicates important procedures which should be followed.

15, 25 & 35,000L DW Fuel Tanks

Introduction

Introduction

The 15, 25 and 35,000L model fuel tanks are designed to meet ULC S601-07 standards for strength and durability. This tank can accommodate a variety of fuel types and features a 100% containment system that is designed to prevent costly leaks.

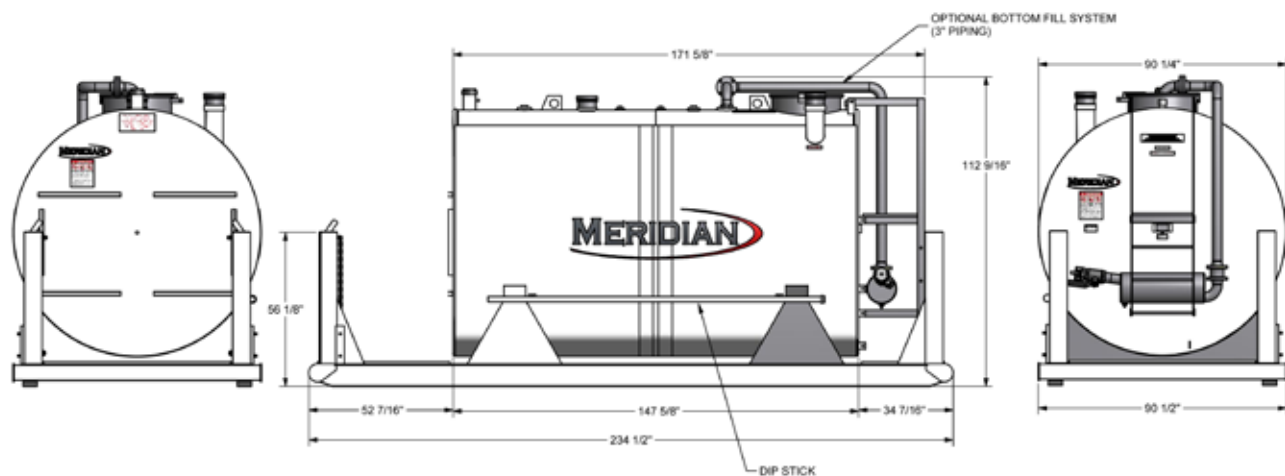
These double walled steel lined tanks are also finished with long lasting durable powder coat paint finish. With proper care and handling these tanks will provide many years of environmentally safe fuel storage.

Standard Features

- CAN-ULC-S601-07 APPROVED
- 100% SECONDARY CONTAINMENT
- HEAVY GAUGE CONSTRUCTION
- LIFTING LUGS
- EMERGENCY VENTS
- SPARE PORT FITTINGS
- FULLY WELDED HEAVY DUTY SKID
- LADDER / PLATFORM FOR EASY & FAST ACCESS TO FILL PORTS
- PREMIUM POWDER COAT FINISH

Specifications

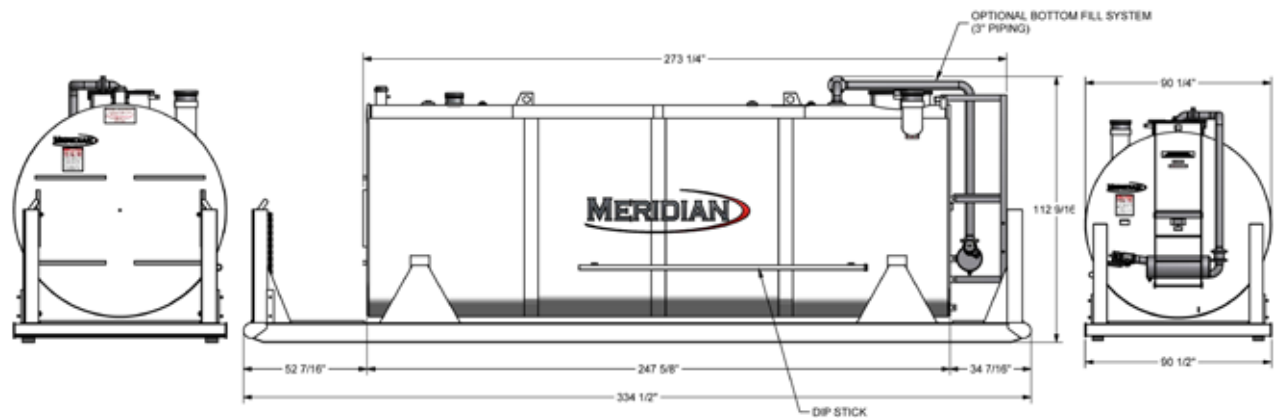
15,000L Fuel Tank	Metric	Imperial
Volume 100% Compartment	14,855 liters	3,299.5 gallons
Diameter	228.9 cm	90 1/4 "
Tank Length	380.68 cm	147 5/8 "
Tank Length (with Ladder)	445.77 cm	171 5/8 "
Tank Length (With Skid)	595.63 cm	234 1/2 "
Weight (empty)	2,962 kg	6,530 lb
Skid Weight	944 kg	2,081 lb
Bottom Fill Weight	129 kg	284.3 lb



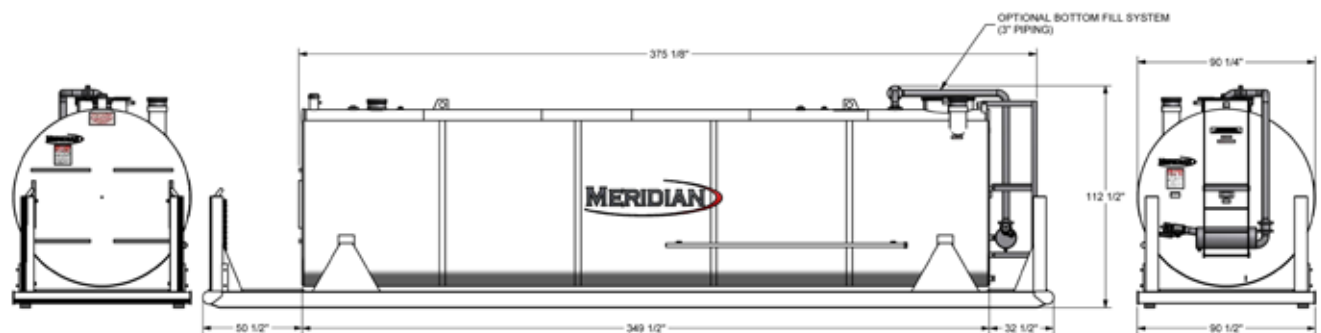
15, 25 & 35,000L DW Fuel Tanks

Introduction

25,000L Fuel Tank	Metric	Imperial
Volume 100% Compartment	24,989 liters	5,496.80 gallons
Diameter	229.87 cm	90 1/4 "
Length (without Skid)	628.96 cm	247 5/8 "
Length (with Skid)	849.63 cm	334 1/2 "
Weight (empty)	4,241 kg	9,349.8 lb.
Skid Weight	1,136 kg	2,504.4 lb.
Bottom Fill Weight	129 kg	284.3 lb.



35,000L Fuel Tank	Metric	Imperial
Volume (Total)	35,051 liters	7,698.9 gals
Diameter	231.2 cm	90 1/4 "
Length (without Skid)	883.92 cm	349 1/2 "
Length (with Skid)	1,098.5 cm	432 1/2 "
Weight (empty)	5,519 kg	12,167.3 lb
Skid Weight	1,314 kg	2,896.8 lb
Bottom Fill Weight	129 kg	284 lb

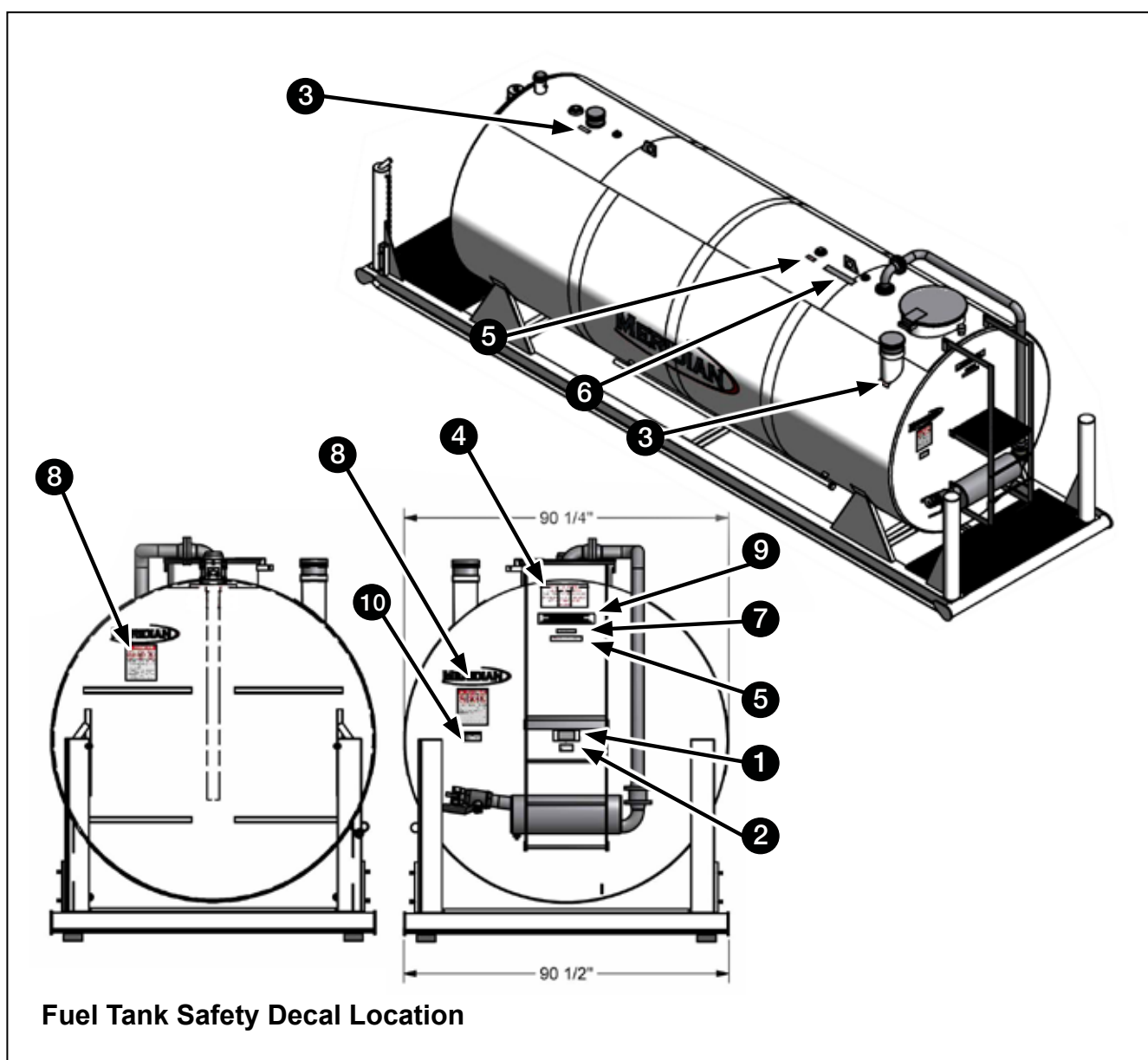


Safety Decals

The following warning decals (see table next page) are installed on the tank at the indicated areas. Decals will vary dependent on the options associated with the selected model. They are intended for the safety of you and those working with you. Please become familiar with the location of these warning decals and the information contained on them.



If the safety decals become damaged or cannot be clearly or easily read they must be replaced.



 ABOVEGROUND STEEL TANK FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS - CANULC-8401-07 INTERIOR CONTAINED					
ULC LIMITED CHICAGO, ILL.		SPEC. NO. <input type="text"/>		USER NO. <input type="text"/>	
FACTORY NO. OF MANUFACTURE <input type="text"/>		PRODUCT TANK IN DESIGN CAPACITY <input type="text"/> L		REQUIRED TANK IN DESIGN CAPACITY <input type="text"/> L	
BASIC DESIGN PRESSURE <input type="text"/> kPa		BASIC DESIGN PRESSURE <input type="text"/> kPa		BASIC DESIGN PRESSURE <input type="text"/> 309 Pa	
MERCIDIAN MANUFACTURING GROUP					

15, 25 & 35,000L DW Fuel Tanks

Safety Decals

Decal Number	Description, Part Number and Location	Image
8	Danger Safety Decal (P/N 20048) Located on both ends of the tank.	
9	Jurisdictional Warning (P/N 20046) Located on dispensing end of tank.	
10	Warning Falling Hazard (P/N 19961) Located next to climbing ladder.	

Installing The Tank

This document only covers general installation instructions. Consult the correct authority having jurisdiction in your area prior to tank installation.

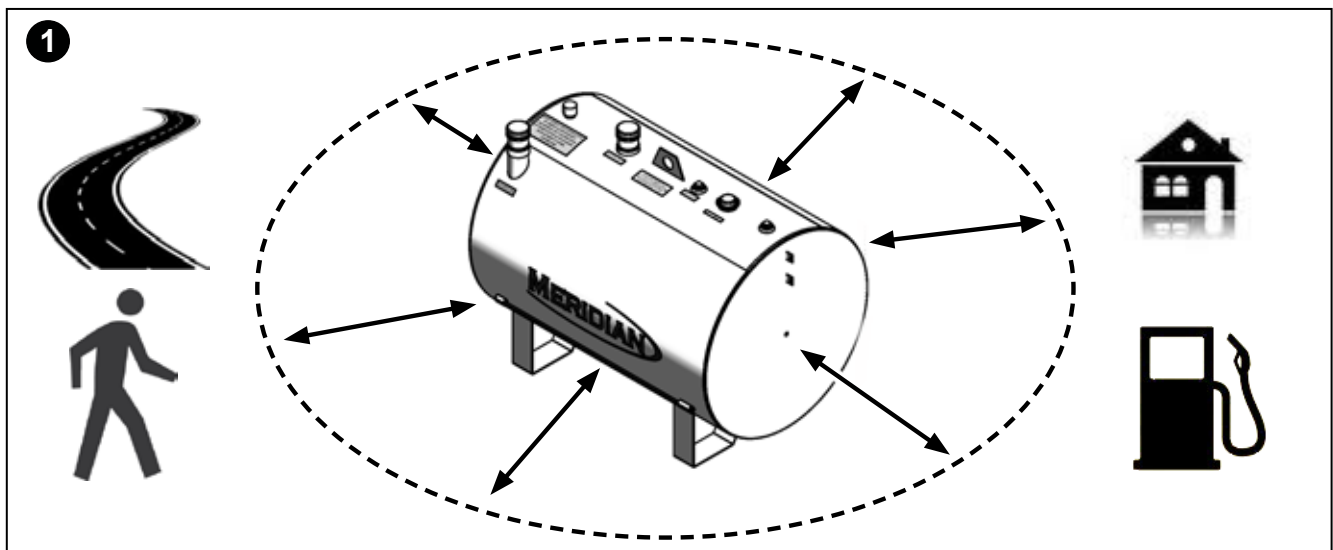
NOTE: This tank must be installed by a qualified tank installer who shall consult with the proper authorities with jurisdiction to ensure all requirements of CAN/ULC-S601-07 and all Federal, Provincial and Local codes are being met prior to installation. Failure to do so, could void your warranty.

Installation

All timber/containers used in shipping must be completely removed from the tank prior to installation of tank.

Location

The tank shall be placed at a safe distance from buildings, other tanks, roadways, waterways, property lines, public ways, etc. Refer to applicable codes and local authorities.



Tank Base

The tank shall be installed on a level base designed to support the tank weight plus 100% liquid loading. The tank skid or legs shall be the only part of the tank in contact with the foundation or base.

Tank Lifting

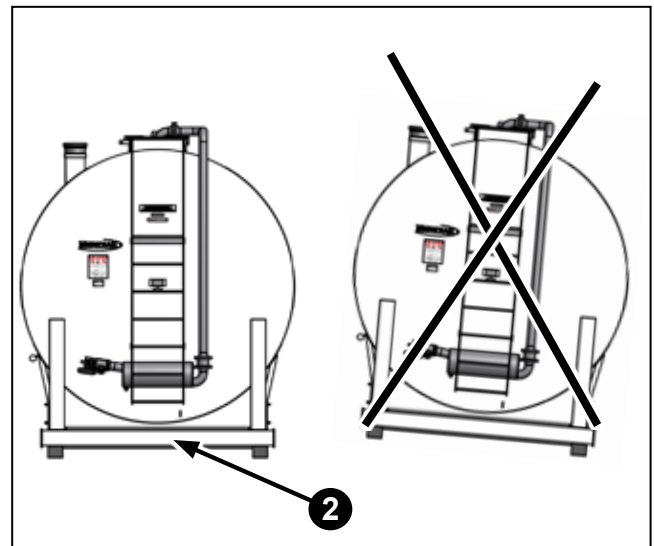
Only the lifting lugs provided with the tank shall be used for unloading or moving of the tank. Do not lift tank containing fluid at any time.

Tank Inspection

The tank installer shall ensure that all fittings, have not loosened during transportation and that they are sealed and tight.

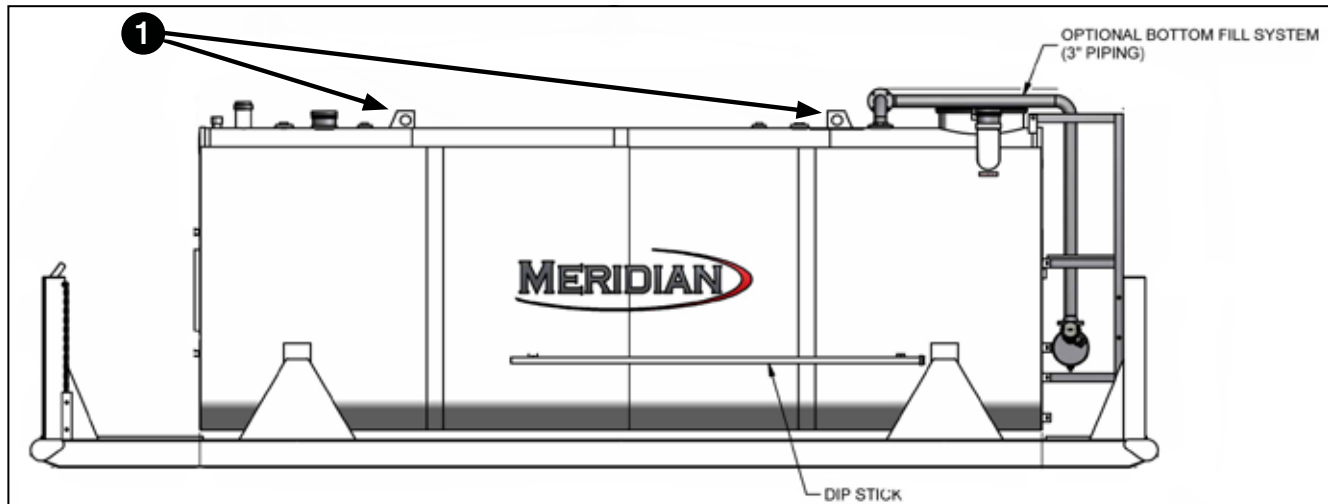
Check all painted areas of tank for damage due to shipping and also at final installation.

All scratched or scuffed areas must be touched up



15, 25 & 35,000L DW Fuel Tanks

Installing The Tank



with paint prior to use. If the damages are deemed to affect the integrity of the tank, contact your distributor or dealer prior to putting any product in the tank.

Tank Venting

The emergency vents are installed by Meridian Industries. The normal vent is to be field-installed by a qualified tank installer prior to use of the tank to prevent pressure or vacuum inside the tank during filling, emptying, or atmospheric temperature changes that may occur.

Containment Inspection

The containment tank should be checked on a regular basis, to confirm that neither precipitation nor product has accumulated therein. The disposal of any liquid found in the containment shall be disposed of in accordance with the requirements of the authority having jurisdiction.

Overfill Protection



The tank installer must ensure that an approved **OVERFILL PROTECTION DEVICE** is installed in the tank prior to the tank being filled with any fuel.

Fuel Level Inspection Port

Fuel Level Inspection Port is located in the 25 " Spill Box on top of the tank. The 2" lockable port allows tank fuel levels to be measured with the dip stick located on the side of the tank. See Measuring Fuel Tank Levels in this manual.

Spill Box Fill Connection

Ensure the hose is properly secured to the 3" connection inside the Spill Box before refueling begins. Never leave while refueling the tank. After the refueling process is completed, drain the hose before disconnecting to eliminate any spilling of fluid. Attach

**DANGER**

DO NOT lift or attempt to transport tanks containing fluid at any time.

the fill cap and close the Hinged Spill Box Cover.

Bottom Fill (Optional)

The 3" bottom fill system has a one way valve installed at the factory to prevent fuel from flowing back down the fill line. Ensure the one-way valve has not been tampered with and is installed correctly (arrow pointing up). Secure the fill hose to the three inch bottom fill connection and then open the ball valve on the bottom fill before beginning the refueling process. Never leave while the refueling of the tank is in process. After refueling is complete drain the hose to eliminate any chance of spilled fuel. Close the ball valve, remove the hose and replace the fill cap on the bottom fill.

Environmental Requirements

The tank installer shall ensure that all environmental requirements are implemented in accordance with the local authority having jurisdiction.

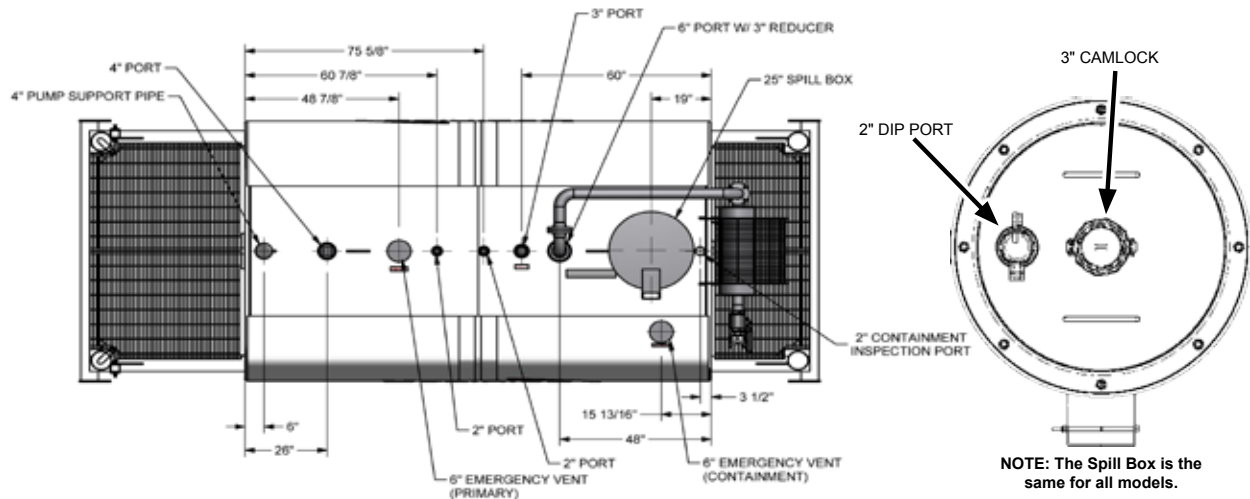
Tank Protection

The installer is to ensure that the tank, is adequately protected against damage from vehicular traffic in compliance with all Federal, Provincial and Local Codes.

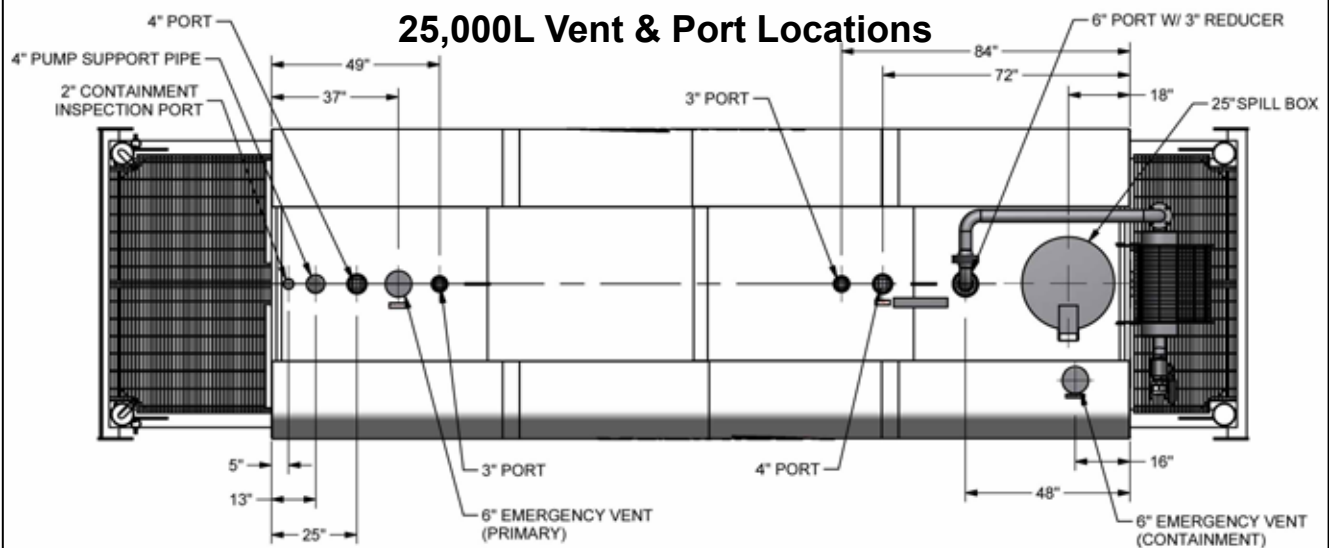
Annual Tank Inspection & Maintenance

The tank is to be inspected annually and any repairs to the exterior coating shall be made at the time of inspection.

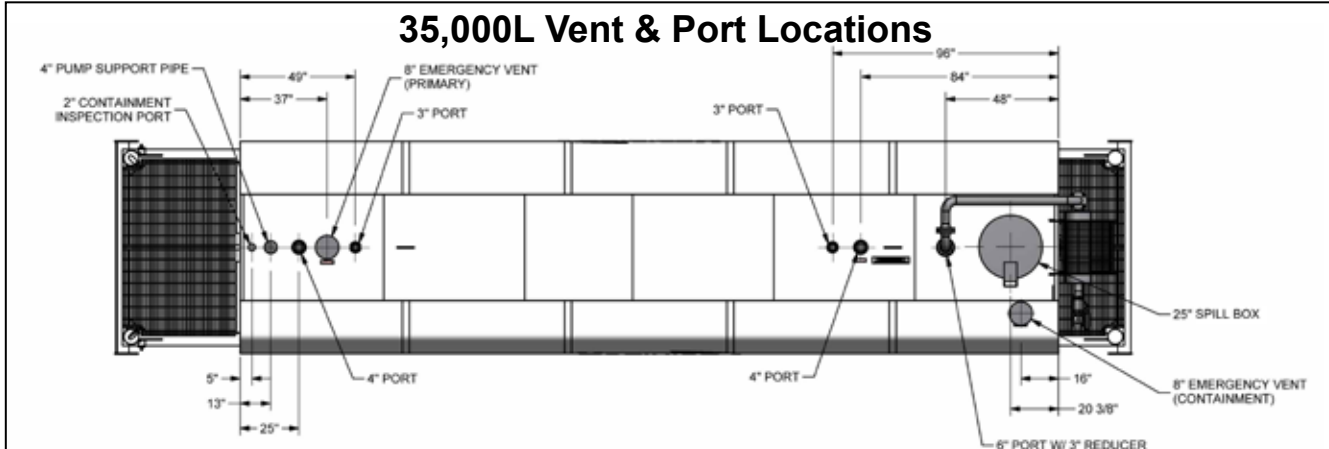
15,000L Vent & Port Locations



25,000L Vent & Port Locations



35,000L Vent & Port Locations



Fuel Transfer Safety

Transfer procedures are to be used when transferring fuel from a delivery vehicle to the tank. Although some transfer procedures are unique to some facilities the following general safety procedures **MUST ALWAYS BE FOLLOWED**:

- Read the Operator Manual before using the fuel tank.
- **DO NOT** smoke when operating or refueling the fuel tank.
- Keep sparks, flames & hot material away from the fuel tank.
- Turn Vehicle ignition off and remove key from ignition before refueling.
- Keep vehicles at least 1.5 m (5') away from the fuel tank at all times.
- Never leave the tank unattended while refueling is in process.
- **DO NOT** overfill. 95% capacity is the maximum legal limit.
- Always turn pump off when finished fueling operations.
- Always store pump nozzle in drip pot when not in operation.



DANGER



ALWAYS determine how much fuel your tank can safely hold. Over filling the tank will cause spills. Check the fuel level by dip checking the tank prior to any fuel transfer. Instructions on the correct procedure for dip checking a tank can be found in this manual.



WARNING



ALWAYS start the fuel transfer at a reduced rate. This reduces the potential for the build up of static electricity



DANGER



DO NOT OVERFILL. Determine a Safe Gauge Height (SGH) this is how much fuel a tank can hold allowing for expansion due to temperature variations. A good rule of thumb is in summer months the tank should not be more than 90% full and in winter the tank should not be more than 95% full.



WARNING



DO NOT dispense fuel during transfer procedures.



WARNING



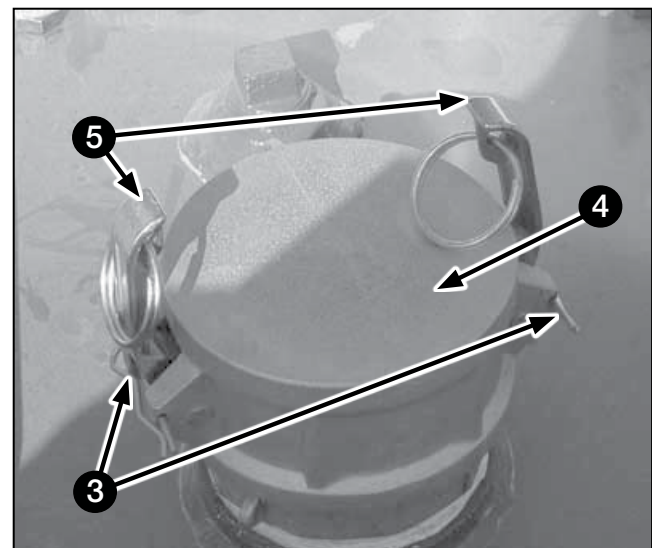
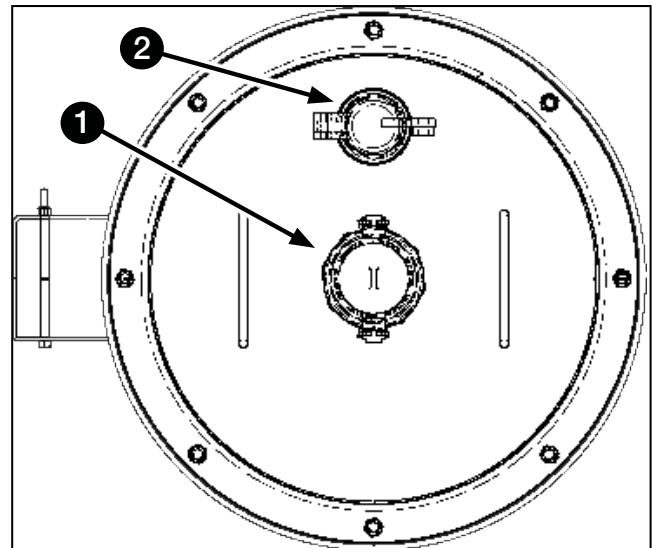
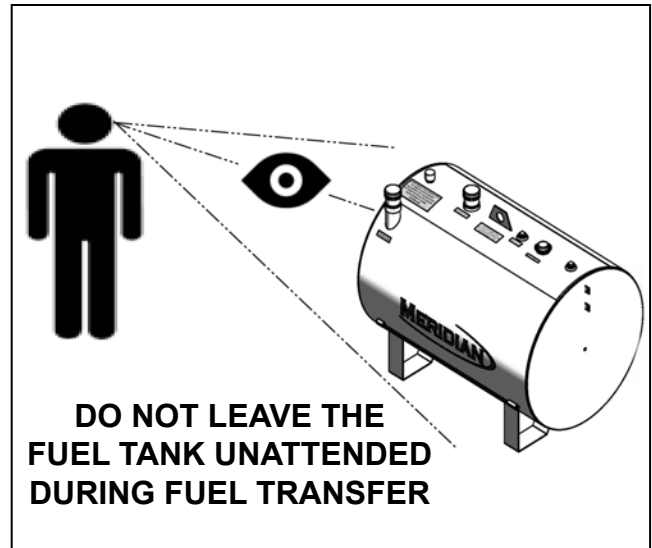
ALWAYS maintain good communications with the driver of the delivery vehicle. Poor communication between the tank operator and the delivery driver often leads to spills and accidents.

Top Fill Procedure

1. Go up the ladder and standing firmly on the platform remove the pin that secures the Spill Box Cover cover and open it.
2. Lift the Spill Box Cover to expose the 3" Male Cam Lock (1) and the 2" Dip Port (2). Ensure area is clean before refueling begins.
3. Remove the two cotter pins (3) on each side of the 3" Male Cam Lock (1) that secure the top cap (4), lower the retraining latches (5) and pull off the top cap.
4. Check the fuel level of the receiving tank through the dip port to determine how much product it can take.
5. Have a pre-transfer meeting with the operator of the delivery vehicle. Determine the correct product is being transferred into the correct tank.
6. Inspect transfer hose for visible leaks, cracks or damage in the line. If leaks are present or later appear do not continue with transfer. Repair as necessary.
7. Attach 3" Female Cam Lock to 3" Male Cam Lock and hand tighten the connection.

NOTE: If the delivery vehicle does not have a matching 3" Female Cam Lock then fill with a nozzle through the 3" fill port.

8. Use the Dip Port (2) to monitor and measure the filling process by removing the single pin. Lift to open lid. Start delivery vehicle pump and slowly begin fuel transfer. Only increase the flow of the product from the delivery vehicle when you are sure there are no problems.
9. Regularly check fuel tank levels and do not over fill the tank. A good rule of thumb is in summer months the tank should not be more than 90% full and in winter the tank should not be more than 95% full.
10. Reduce fuel transfer rates when nearing the top of the tank to avoid overfilling the tanks.
11. Notify the delivery vehicle operator when the transfer procedure is almost complete.
12. Turn off the delivery vehicle delivery pump.
13. Detach delivery hose from the 3" Male Cam Lock (1).
14. Dip tanks, read level on the dip stick and record the amount of fuel delivered.
15. Replace 3" Male Cam Lock Lid (1) and Dip Port Lid (2) and secure with pins.
16. Close and secure the Spill Box Cover.



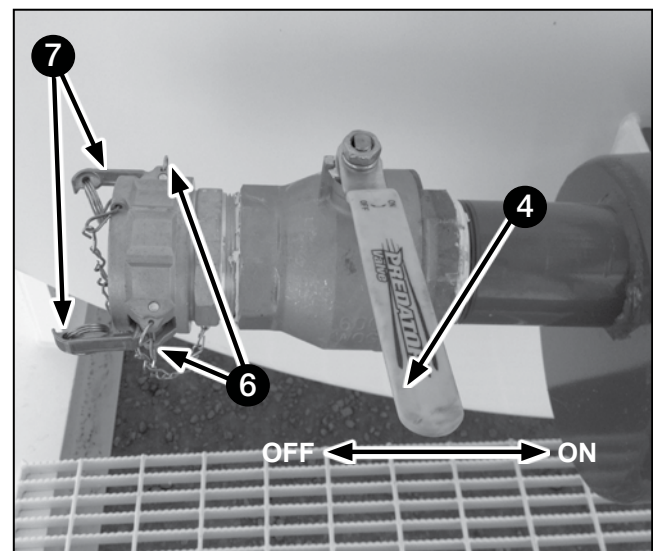
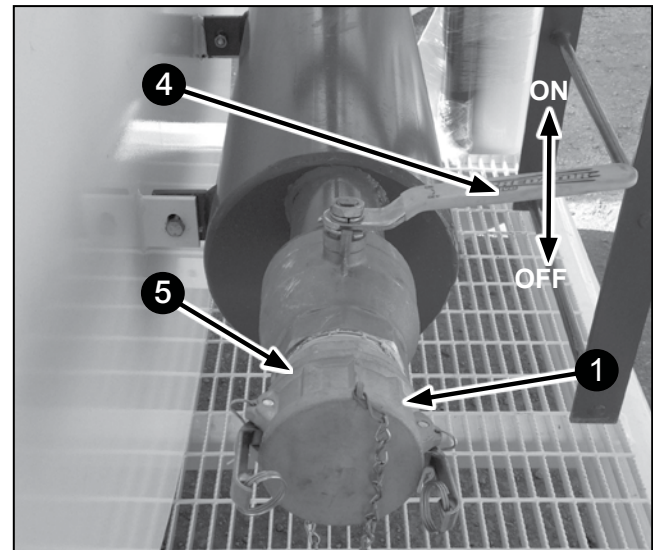
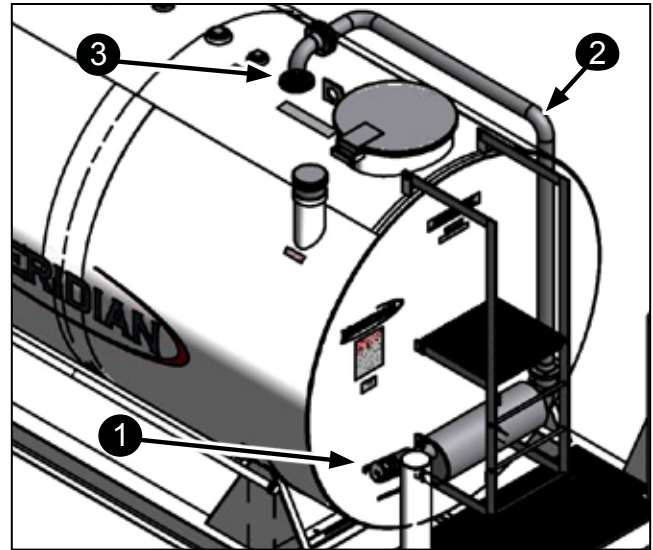
15, 25 & 35,000L DW Fuel Tanks

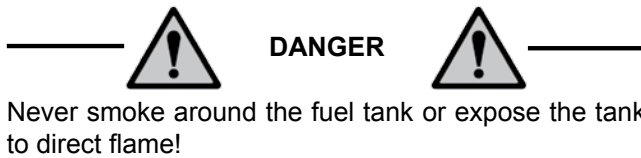
Bottom Fill Procedure

Bottom Fill Procedure

The bottom fill fuel tank option is a more efficient way of filling large tanks. Fuel is pumped under pressure from the delivery vehicle into the tank using a 3" Male Cam Lock (1) located at the base of the tank platform, through pipes (2) leading to the top of the tank (3).

1. Climb the ladder and standing, with both feet firmly on the platform, remove the pin securing the Spill Box Cover. Open the Spill Box Cover and check the fuel level of the receiving tank to determine how much product it can take. Determine the correct product is being transferred into the correct tank. Use the Dip Port to monitor the filling process.
2. Inspect transfer hose for visible leaks, cracks or damage in the line. If leaks are present or later appear do not continue with transfer. Repair as necessary.
3. Turn the bottom fill valve (4) to the **"OFF"** position. Wipe the area around the 3" Male Cam Lock (5) to prevent fuel contamination.
4. Remove the two pins (6) securing the Cam Lock Lid. Pull back the retaining levers (7) and remove the Cam Lock Lid.
5. Securely attach the transfer hose to the 3" male Cam Lock.
6. Turn the bottom fill valve (4) to the **"ON"** position.
7. Start delivery vehicle pump and slowly begin fuel transfer. Only increase the flow of the product from the delivery vehicle when you are sure there are no problems.
8. Regularly check fuel tank levels and do not over fill the tank. A good rule thumb is in summer months the tank should not be more than 90% full and in winter the tank should not be more than 95% full.
9. Reduce fuel transfer rates when nearing the top of the tank to avoid overfilling the tanks.
10. Notify the delivery vehicle operator when the transfer procedure is almost complete.
11. Turn off the delivery vehicle delivery pump.
12. Turn the bottom fill valve to the **"OFF"** position.
13. Dip tank, read level on the dip stick and record the amount of fuel delivered.
14. Ensure the delivery hose has been detached from the 3" Male Cam Lock (5). Replace 3" Male Cam Lock Lid (5) and Dip Port Lid (6) and secure with pins.
15. Close and secure the Spill Box Cover.





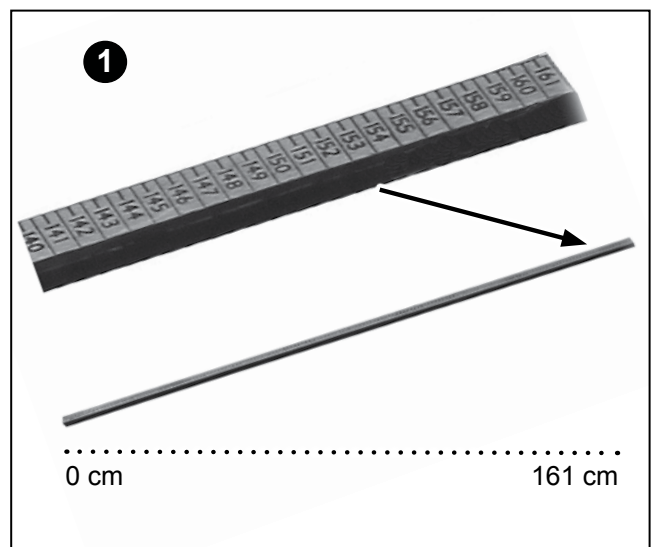
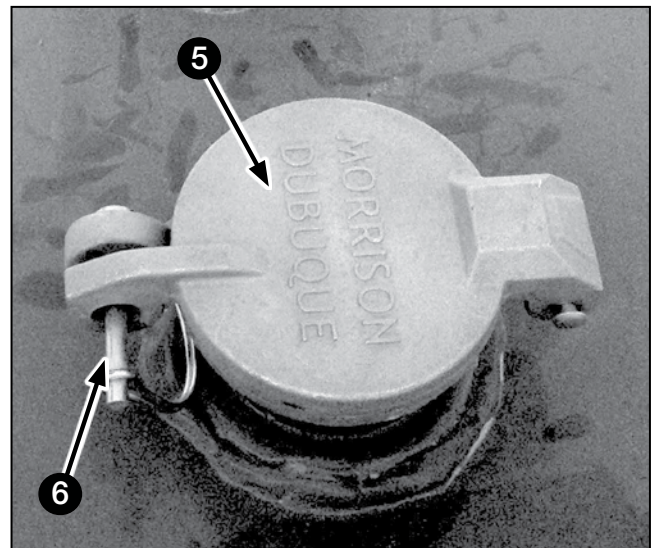
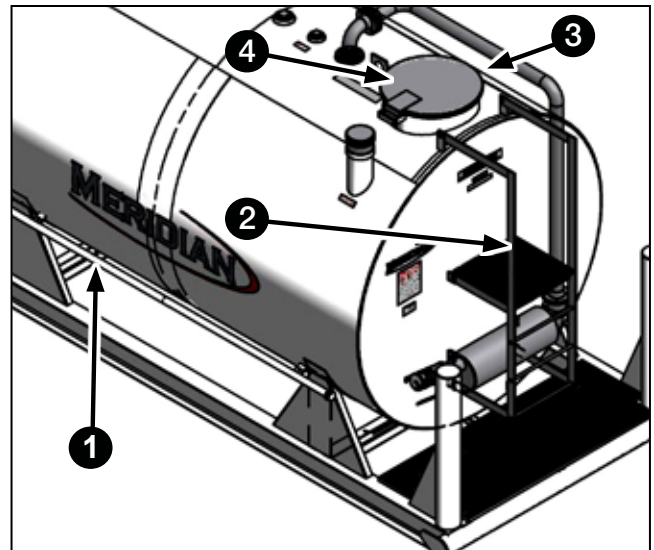
Measuring Fuel Tank Levels

NOTE: After filling the tank wait 30 - 60 mins then dip check the tanks. This allows fuel to settle and will give more accurate readings.

1. Remove the dip stick (1) from its position at the side of the tank.
2. Climb the ladder (2) and standing firmly with both feet on the platform release the pin (3) securing the Spill Box Cover (4) and lift to open.
3. Locate the Dip Port (5) and remove the cotter pin (6) securing the Lid. Lift to open.
4. Insert the dip stick into the tank until it reaches the bottom.

NOTE: Ensure the dip stick is inserted with the lowest number on the dip stick placed toward the bottom of the tank.

5. Remove the dip stick (1) and take note of the amount of fuel in centimeters (cm) that is showing on the stick.
6. Compare the number of centimeters on the dip stick with the Fuel Tank Dip Chart in this manual to determine the amount of fuel in the tank.
7. Close the fill tube lid. Secure with cotter pin (6).
8. Close and secure Spill Box Cover (4).



15, 25 & 35,000L DW Fuel Tanks

Limited Warranty

Limited Warranty

Meridian Manufacturing Inc., (hereinafter referred to as the Manufacturer) hereby warrants the tank(s) sold by it to be free from any defect in material or workmanship under normal use and service for a period of two (2) years from the date of shipment. The Manufacturer also warrants the structural integrity of the tanks(s) for a period of ten (10) years from the date of shipment. The Manufacturer's obligation under this warranty shall be limited to the repair or replacement only, FOB the original point of shipment, of any defective parts or portions of the tank or accessories manufactured by Meridian. Any warranty claim must be reported to the Manufacturer within two (2) years for general and coating claims or ten (10) years for structural claims, from the date of shipment and in the manner as referred to in paragraph 2 herein.

THIS WARRANTY IS SUBJECT TO THE FOLLOWING LIMITATIONS, PROVISIONS AND CONDITIONS

1. This warranty does not apply to:
 - a. Any product sold by the Manufacturer where it is used in areas exposed to corrosive or aggressive conditions including salt water, acids, alkaloid, ash, cement dust, animal waste or other corrosive chemicals.
 - b. Failures or defects arising out of damage during shipment or during storage on site.
 - c. Materials replaced or repaired under this warranty except to the extent of the remainder of the applicable warranty.
 - d. Damage resulting from misuse, negligence, accident or improper site preparation by others.
 - e. Products that have been altered or modified by others.
 - f. (in the case of coating failures) failure as the result of damage, lack of proper maintenance or failure to remove road salt or other contaminants that may have come in contact with the tank surface.
 - g. Products that have not been installed strictly in accordance with the Manufacturer's manuals and instructions.
2. The obligation of the Manufacturer under this warranty shall not arise unless the Manufacturer is notified and this warranty is presented together with a written statement specifying the claim or defect within thirty (30) days after the failure is first detected or made known to the owner and within two (2) years for general and coating claims and ten (10) years for structural claims, from the shipment date. The Manufacturer in its sole discretion shall determine if the claim is valid and whether correction of the defect or failure shall be made by repair or replacement of the materials.
3. The coating warranty is based on the Manufacturer's performance specification for polyester powder finishes and does not include repair of minor blemishes or rusting that is normally part of the general maintenance of the tank.
4. The obligation of the Manufacturer hereunder extends only to the original owner and to the Meridian dealer to whom the materials may have been initially sold. This warranty shall not be subject to any assignment or transfer without the written consent of the Manufacturer.
5. The customer shall acknowledge that it has made its own independent decision to approve the use of the supplied materials and also the specific fabrication and construction procedures utilized to complete the tank, and has satisfied itself as to the suitability of these products for this particular application.
6. The foregoing sets forth the only warranties applicable to said materials and said warranties are given expressly and in lieu of all other warranties, expressed or implied, statutory or otherwise, of merchantability or fitness for a particular purpose and all warranties which exceed or differ from said warranties herein are disclaimed by the Manufacturer.
7. The owners sole and exclusive remedy against the Manufacturer shall be limited to the applicable warranty set forth herein and the endorsements, if any, issued together with this document and no other remedy (including but not limited to the recovery of assembly or disassembly costs, shipping costs, direct, incidental, special, indirect or consequential damages for lost profits, lost sales, injury to person or property or any other loss, whether arising from breach of contract, breach of warranty, tort, including negligence, strict liability or otherwise) shall be available to the owner or Meridian Dealer or any other person or entitles whether by direct action or for contribution or indemnity or otherwise.
8. The financial obligation of the Manufacturer under this warranty shall be limited to the repair or replacement of the product as originally supplied and in no event shall exceed the original cost of the product supplied.
9. The Manufacturer shall not have any obligation under any warranty herein until all accounts for materials, installation and erection of the said product thereof and for labor and other work performed by the Manufacturer or its dealers have been paid in full by the owner.

Warranty Claim Procedure

- a. Advise the Dealer or Manufacturer immediately upon discovery of any defects.
- b. Complete the Fuel Tank Warranty Order Request found in the back of this manual in its entirety then mail or e-mail the form to tankwarrantyca@meridianmfg.com
- c. When the warranty claim form is received by the Manufacturer you will be contacted by our customer service department.
- d. Claims will be adjudicated at the sole discretion of the Manufacturer and in accordance with the terms and conditions of the applicable limited warranty.



ATTENTION DEALERS:

You can register your products online through the
Dealer Login: <http://dealers.meridianmfg.com/login/>

“Warranty Registration Form”:

It is mandatory to complete this form and return to the manufacturer in order to qualify for future warranties that may arise; knowingly falsifying information on this form will result in the voiding of the product warranty.

Dealer Information
Name: _____
Address: _____
City, State, Code: _____
Phone: _____

Customer Information
Name: _____
Address: _____
City, State, Code: _____
Phone: _____

Note; registering a product in multiple entry format is only allowed when; the product has the same Model # and the same dealer, however **each serial number must be legibly listed for each unit.** Delivery dates for a multiple entry must be within a 1 month time frame.

Product Information: _____

Model #: _____

Serial #: _____

Invoice Date: _____

***Warranty Acknowledgement ***

The **“Product Warranty”** along with the **“Operator’s Manual”** for this product purchase has been reviewed and understood by the end user.

Date: _____

Signature: _____

Important: Please send this form to the Meridian Manufacturing Location which built this product being registered; if you require further assistance call your Dealer or the Meridian Manufacturing outlet nearest to your location.

We want to thank you for purchasing a Meridian manufactured product. Whether this is your first Meridian purchase or you have been a customer for years; you are now part of the Meridian community of customers and we appreciate your business.

It is important that you now complete the product registration information and this form indicating you have received delivery. This registration and information is necessary to ensure you have access to warranty and product updates in the event it be required in the future.

Registration can be completed by using this form or visiting your dealer who will complete the form online. You will be given access to the Meridian Community and become eligible for updates, special offers and prizes.

Again thank you for choosing Meridian.

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15,000L Dip Chart (100% Compartment)

Depth	Vol	Depth	Vol	Depth	Vol	Depth	Vol	Depth	Vol	Depth	Vol
cm	L	cm	L	cm	L	cm	L	cm	L	cm	L
1	7	39	1718	77	4483	115	7621	153	10736	191	13423
2	21	40	1782	78	4562	116	7705	154	10814	192	13483
3	39	41	1846	79	4642	117	7788	155	10892	193	13543
4	59	42	1911	80	4723	118	7872	156	10970	194	13601
5	83	43	1977	81	4803	119	7956	157	11047	195	13659
6	109	44	2043	82	4884	120	8040	158	11124	196	13716
7	137	45	2110	83	4965	121	8124	159	11201	197	13772
8	167	46	2177	84	5046	122	8207	160	11277	198	13827
9	199	47	2245	85	5127	123	8291	161	11353	199	13882
10	233	48	2313	86	5208	124	8374	162	11429	200	13935
11	268	49	2382	87	5290	125	8458	163	11504	201	13988
12	305	50	2452	88	5372	126	8541	164	11579	202	14039
13	343	51	2522	89	5454	127	8625	165	11654	203	14090
14	383	52	2592	90	5536	128	8708	166	11728	204	14140
15	424	53	2663	91	5618	129	8791	167	11802	205	14189
16	467	54	2735	92	5700	130	8874	168	11875	206	14236
17	510	55	2806	93	5783	131	8957	169	11948	207	14283
18	555	56	2879	94	5866	132	9039	170	12020	208	14328
19	601	57	2952	95	5949	133	9122	171	12092	209	14372
20	649	58	3025	96	6031	134	9204	172	12164	210	14415
21	697	59	3098	97	6114	135	9287	173	12235	211	14457
22	746	60	3172	98	6198	136	9369	174	12306	212	14498
23	796	61	3247	99	6281	137	9451	175	12376	213	14537
24	848	62	3321	100	6364	138	9533	176	12446	214	14574
25	900	63	3396	101	6448	139	9615	177	12515	215	14610
26	953	64	3472	102	6531	140	9696	178	12584	216	14645
27	1007	65	3548	103	6615	141	9777	179	12652	217	14677
28	1062	66	3624	104	6698	142	9859	180	12719	218	14708
29	1118	67	3701	105	6782	143	9939	181	12786	219	14737
30	1174	68	3777	106	6866	144	10020	182	12853	220	14764
31	1232	69	3855	107	6950	145	10101	183	12919	221	14789
32	1290	70	3932	108	7033	146	10181	184	12984	222	14810
33	1349	71	4010	109	7117	147	10261	185	13049	223	14829
34	1409	72	4088	110	7201	148	10341	186	13113	224	14845
35	1469	73	4166	111	7285	149	10420	187	13176	225	14855
36	1530	74	4245	112	7369	150	10500	188	13239		
37	1592	75	4324	113	7453	151	10579	189	13301		
38	1655	76	4403	114	7537	152	10658	190	13363		

15, 25 & 35,000L DW Fuel Tanks
Depth Chart

25,000L Dip Chart (100% Compartment)

Depth	Vol	Depth	Vol	Depth	Vol	Depth	Vol	Depth	Vol	Depth	Vol
cm	L	cm	L	cm	L	cm	L	cm	L	cm	L
1	13	39	2889	77	7541	115	12819	153	18060	191	22580
2	35	40	2997	78	7675	116	12960	154	18192	192	22681
3	65	41	3105	79	7809	117	13102	155	18323	193	22781
4	100	42	3215	80	7944	118	13243	156	18453	194	22879
5	139	43	3325	81	8080	119	13384	157	18583	195	22976
6	183	44	3436	82	8215	120	13524	158	18713	196	23072
7	230	45	3549	83	8351	121	13665	159	18842	197	23167
8	281	46	3662	84	8488	122	13806	160	18970	198	23260
9	334	47	3776	85	8624	123	13947	161	19098	199	23351
10	391	48	3892	86	8761	124	14087	162	19225	200	23441
11	451	49	4008	87	8898	125	14228	163	19352	201	23530
12	513	50	4124	88	9036	126	14368	164	19478	202	23617
13	577	51	4242	89	9174	127	14508	165	19603	203	23702
14	644	52	4361	90	9312	128	14648	166	19728	204	23786
15	714	53	4480	91	9450	129	14788	167	19852	205	23868
16	785	54	4600	92	9589	130	14927	168	19976	206	23948
17	859	55	4721	93	9728	131	15067	169	20098	207	24026
18	934	56	4843	94	9867	132	15206	170	20220	208	24102
19	1012	57	4965	95	10006	133	15345	171	20341	209	24177
20	1091	58	5088	96	10146	134	15483	172	20462	210	24249
21	1172	59	5212	97	10286	135	15622	173	20582	211	24319
22	1255	60	5336	98	10425	136	15760	174	20700	212	24387
23	1340	61	5461	99	10565	137	15898	175	20818	213	24453
24	1426	62	5587	100	10706	138	16036	176	20936	214	24516
25	1514	63	5713	101	10846	139	16173	177	21052	215	24577
26	1603	64	5840	102	10986	140	16310	178	21168	216	24635
27	1694	65	5968	103	11127	141	16447	179	21282	217	24690
28	1787	66	6096	104	11268	142	16584	180	21396	218	24742
29	1880	67	6225	105	11409	143	16720	181	21509	219	24790
30	1976	68	6354	106	11549	144	16856	182	21621	220	24836
31	2072	69	6484	107	11690	145	16991	183	21731	221	24877
32	2170	70	6615	108	11831	146	17126	184	21841	222	24914
33	2269	71	6745	109	11972	147	17261	185	21950	223	24946
34	2370	72	6877	110	12114	148	17395	186	22058	224	24972
35	2471	73	7009	111	12255	149	17529	187	22165	225	24989
36	2574	74	7141	112	12396	150	17662	188	22270		
37	2678	75	7274	113	12537	151	17795	189	22375		
38	2783	76	7407	114	12678	152	17928	190	22478		

35,000L Dip Chart (100% Compartment)

Depth	Vol	Depth	Vol	Depth	Vol	Depth	Vol	Depth	Vol	Depth	Vol
cm	L	cm	L	cm	L	cm	L	cm	L	cm	L
1	18	42	4509	83	11714	124	19759	165	27497	206	33590
2	50	43	4664	84	11905	125	19956	166	27672	207	33700
3	91	44	4820	85	12097	126	20153	167	27846	208	33807
4	140	45	4978	86	12289	127	20350	168	28019	209	33912
5	195	46	5137	87	12481	128	20546	169	28191	210	34013
6	256	47	5297	88	12674	129	20742	170	28362	211	34112
7	323	48	5458	89	12868	130	20938	171	28532	212	34207
8	394	49	5621	90	13062	131	21133	172	28701	213	34299
9	469	50	5785	91	13256	132	21328	173	28869	214	34388
10	549	51	5950	92	13450	133	21523	174	29036	215	34473
11	632	52	6117	93	13645	134	21718	175	29201	216	34554
12	719	53	6284	94	13840	135	21912	176	29366	217	34631
13	810	54	6452	95	14036	136	22106	177	29529	218	34704
14	904	55	6622	96	14231	137	22300	178	29691	219	34772
15	1001	56	6793	97	14427	138	22493	179	29852	220	34836
16	1101	57	6964	98	14623	139	22686	180	30011	221	34894
17	1204	58	7137	99	14820	140	22878	181	30169	222	34945
18	1310	59	7310	100	15016	141	23070	182	30326	223	34990
19	1419	60	7485	101	15213	142	23261	183	30482	224	35026
20	1530	61	7660	102	15410	143	23452	184	30636	225	35051
21	1644	62	7837	103	15607	144	23643	185	30788		
22	1760	63	8014	104	15805	145	23833	186	30940		
23	1879	64	8192	105	16002	146	24022	187	31089		
24	2000	65	8371	106	16200	147	24211	188	31237		
25	2123	66	8551	107	16398	148	24399	189	31384		
26	2249	67	8732	108	16595	149	24587	190	31529		
27	2376	68	8913	109	16793	150	24774	191	31672		
28	2506	69	9095	110	16991	151	24961	192	31814		
29	2638	70	9278	111	17189	152	25147	193	31954		
30	2771	71	9462	112	17387	153	25332	194	32092		
31	2907	72	9646	113	17585	154	25517	195	32228		
32	3044	73	9831	114	17783	155	25700	196	32362		
33	3183	74	10016	115	17981	156	25884	197	32495		
34	3324	75	10203	116	18179	157	26066	198	32625		
35	3466	76	10390	117	18377	158	26248	199	32754		
36	3611	77	10577	118	18575	159	26429	200	32880		
37	3756	78	10765	119	18772	160	26609	201	33004		
38	3904	79	10954	120	18970	161	26788	202	33126		
39	4053	80	11143	121	19168	162	26967	203	33246		
40	4204	81	11333	122	19365	163	27144	204	33363		
41	4356	82	11523	123	19562	164	27321	205	33478		

15, 25 & 35,000L DW Fuel Tanks

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