



Underground Septic Tank Installation Instructions

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**Septic Tanks are for UNDERGROUND use only.
Failure to comply will void all warranties.**

Always be sure to check your local codes relative to underground tank installations. Some states, counties, and/or municipalities have very strict codes, especially regarding septic tanks. Septic tanks may not be returned due to inspector rejections after installation.

VPC Underground Tanks



1500g Septic Tank
(1 or 2 compartments)



1000g Septic Tank
(1 or 2 compartments)



500g Septic Tank
(1 compartment only)

Site Preparation & Tank Placement

1. Dig a hole that will provide a minimum of 6” and a maximum of 30” of cover over the top of the tank.
 - Allow 18” to 24” on both sides and both ends of the tank.
 - Possible tank collapse could occur if these allowances are not provided and may void the warranty.
2. Bedding material:
 - Well packed sand is the preferred bedding material.
 - 6” for regular soil terrain and 12” for rocky terrain.
 - Native soil is acceptable so long as it is flowable, compactable, rock free, and can provide uniform overall support, especially in the recessed rib areas.
 - Ensure all backfill material is free of wood, masonry debris, silt, and/or clay.
 - When bedding material is in place and the foundation for the tank is level, carefully lower the tank into place.
 - This is best done with 2-3 people depending on the size and weight of the empty tank.
 - Wiggle the tank around to seat it into the sand or pea gravel to and to allow the foundation bedding material to fully support the tank and bottom ribs.
3. Install supplied 4” tees and gaskets in the inlet and outlet holes in the tank prior to placing it in a properly sized excavated hole (see below).
 - The tees can be used with 4” schedule 40 pipe or 4” SDR 35 pipe.
 - Note the direction of the flow and that the inlet hole is higher than the outlet hole.
 - Use standard PVC cement to create a solvent weld to incoming lines and outbound leach field after the tank is lowered into the hole.
 - Note: If using ABS pipe, ensure the proper ABS-PVC cement is used. ABS-ABS or PVC-PVC cement will not suffice.

NOTE: High water tables can cause a septic tank to float to the surface. If your state, county, or city requires tank buoyancy mitigation, please refer to the Septic Tank Buoyancy Mitigation Recommendations included with these instructions and/or call professional qualified septic tank installer.

4. Optional: Install a manhole extension(s) if desired.



- Manhole extensions can be ordered along with your septic tank(s).
 - 12”, 6”, and 3” high x 20” diameter.
 - Tank adapter ring is suggested for placement between the tank and the risers.



- Maximum burial level of our septic tanks is 30", so manhole extensions may be stacked on each other to obtain desired tank burial depth.
 - Use butyl rope or silicone to create a watertight seal if stacking risers.
- Use the lid(s) supplied with the tank to place on top of the manhole extension and secure with provided stainless steel screws.

Backfilling

***This is a very important phase of your installation.
Please follow instructions carefully to ensure optimal tank performance.***

5. Fill tank with 12" of water.
6. Backfill the excavation with 12" of clean backfill material.
 - **IMPORTANT:** Firmly compact the ends first, then the sides of the tank.
 - Upon completion of the first 12", continue this sequence all the way to the surface.
 - 12" of water in the tank; 12" of firmly compacted backfill around the tank.
 - Be sure to compact backfill under the inlet and outlet pipes.
7. As previously mentioned, 30" maximum burial level between the top of the tank and surface grade level.
8. Mound soil over the top of the tank to ensure positive drainage.

Important Additional Notes*

- ✓ Always check local codes to ensure plastic septic tanks can be used prior to purchasing or installation.
- ✓ Have a professional site survey done by a qualified, certified geologist prior to purchasing or installation.
- ✓ Do not install any tank in a high-water table and/or in water saturated clay.
 - The tank may collapse and expel its contents.
- ✓ Don't store a plastic tank near a flame or heat in excess of 180°F.
- ✓ Protect the tank from sharp objects both in advance of installation and during installation.
- ✓ Vehicles and/or heavy equipment can be detrimental to an underground tank.
 - Don't bury under the path of vehicles and/or heavy equipment.
- ✓ Septic tanks should be kept full at all times.
 - If a septic tank is pumped for normal maintenance, it should be refilled immediately.
- ✓ Septic tanks are not holding tanks and should not be used as such.
 - Septic tanks may not be used for drinking water.
- ✓ HDPE (high density polyethylene) tanks can be repaired. Generally, here is how it is done:
 1. Tank must be unearthed and emptied (not necessarily uninstalled and removed from its hole).
 2. Once the leaking point has been located, ensure there are no jagged edges and that the hole is "cleaned up". This can be done with a standard hand-held grinding tool and some soapy water.
 3. Purchase some HDPE strips or material.
 4. Use a medium or large tipped soldering iron to melt the material around the hole as well as to melt the HDPE strips into the hole.
 5. Repeat the process until the hole is completely filled and is secure.
 6. Test fill with water to above the hole to ensure it is watertight. If not, add more HDPE.
 7. If desired, use no heavier than 80 grit sandpaper to smooth the surface. Do not over-sand.
 8. Re-bury and re-compact as per original instructions (12" of water in tank followed 12" of compacted back-fill (starting with the ends)) and repeat until completely buried.

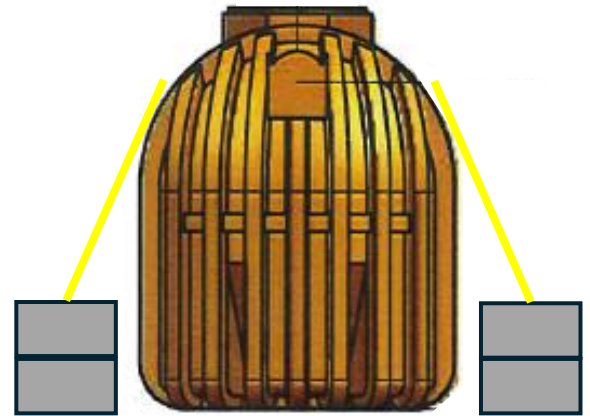
* - Failure of any of the above will void warranty.

VPC Tanks Limited Warranty

When installed in accordance with manufacturer's instructions, VPC (Valencia Pipe Company) warrants against defective materials and/or workmanship for three (3) years from the date of manufacture. Date of manufacture (serial number) can be found on the permanent label affixed to each tank. Should a defect appear within the warranty period, Valencia Pipe Company will supply a like replacement tank. Cost of removal and/or installation and consequential damages are not covered.

CONSUMER SHOULD CONTACT VALENCIA PIPE COMPANY PRIOR TO REMOVAL OF THE ALLEGED DEFECTIVE TANK TO RECEIVE THE REQUIRED WARRANTY FORM.

Valencia Pipe Company 1000 Gallon Septic Tank Additional Weight Necessary (Pounds)					
Inches of Soil Cover On Top of Tank	Inches of Groundwater Above Base of Tank				
	6	12	18	24	30
6		360	1890	3330	4860
9			540	2070	3510
12				720	2250
15					900
18					
21					
24					
27					
30					



Some Suggestions:

Valencia Pipe Company 1500 Gallon Septic Tank Additional Weight Necessary (Pounds)					
Inches of Soil Cover On Top of Tank	Inches of Groundwater Above Base of Tank				
	6	12	18	24	30
6		540	2700	4770	6840
9			810	2880	5040
12				1080	3150
15					1260
18					
21					
24					
27					
30					



Concrete Block



Concrete
Parking Lot
Bumper

* - 90# used for calculation purposes.

No additional weight or restraints necessary
 Amount of extra weight / restraint necessary
 (In pounds)

Installing an underground septic system is a labor- and time-intensive endeavor that requires some expertise.

If you are unsure of any aspect of your septic tank installation, hire or consult with a qualified tank installer.

IAPMO RESEARCH AND TESTING, INC.

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CERTIFICATE OF LISTING



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Issued To:

VALENCIA PIPE COMPANY

28305 LIVINGSTON AVE VALENCIA, CA 91355 . United States

Product:

Prefabricated Septic Tanks

Products are in compliance with the following code(s):

Uniform Plumbing Code (UPC®)
National Plumbing Code of Canada

Products are certified to the following standard(s)

IAPMO/ANSI Z1000-2019 and CSA B66-2021

File Number: 16181

Effective Date: April 2024

Void After: April 2029*


Chairman, Product Certification Committee




Chief Technical Service Officer

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Models

Model Number	Description
87-41718	1000 Gallon Single Compartment Septic Tank Yellow
87-41720	1000 Gallon Two Compartment Septic Tank Yellow
87-41758	1500 Gallon Single Compartment Septic Tank Yellow
87-41760	1500 Gallon Two Compartment Septic Tank Yellow