



Tankmasta®

Highest quality tanks; Lowest cost installation.

Congratulations on your purchase of a Tankmasta tank!

Since 1999, the Tankmasta name has represented the peace of mind that comes from dealing with one of Australia's largest plastic manufacturers.

Viscount Rotational Mouldings (VRM) is a member of the Viscount Group of Companies and our Tankmasta rainwater tank range continues our tradition of quality through innovation.

Feel secure that you have purchased a tank from an ISO 9000:2000 Quality Endorsed manufacturing company and that the Tankmasta rainwater tank range is certified to the exacting polyethylene tank standard AS/NZS4766:2006

Tankmasta; because not all tanks are equal!

Kind regards

from the team at Tankmasta.

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Secure your Tank:

You will notice that the outlets of your tanks are positioned more than 100mm up from the base. This is to ensure that there is always a suitable amount of weight in your tank to secure it in position. Once installed, you will need to fill your tank with water to the outlet position in the mean time securely tie the tank down until the water reaches this level.

Your Responsibility

A signed delivery docket confirms that you, the customer, have received your tank and associated fittings in total and in good condition. We recommend that you inspect the tank before signing the delivery docket as your signature represents your recognition that you have accepted the tank in good order and that the warranty period begins. If you have any concerns or queries please note them on the delivery docket before signing.

Tankmasta advises that you store your proof of purchase with this hand over booklet in a safe location; in the event of needing to contact Tankmasta, all the required documentation will be on hand. It is important to hold onto proof of purchase, as it is a requirement for any warranty claim.

Installation Instructions

One of the great benefits of Tankmasta's round tank range is that due to strong manufacturing integrity there is no need to prepare a concrete, crushed rock or sand base*. However, please ensure that the tank site is flat and level, free from any rocks or stones etc. or any other foreign matter that may damage the tank base.

* Except with slimline tanks where non compactable base is required - refer to below instructions.

Base Requirements

Round Tanks

Firm flat base with no protruding objects

Note: If a base is being prepared:

Ensure that the tank site is level and well compacted to eliminate any soft spots. A concrete slab must be sufficient to hold the weight of the tank and water. It must be remembered that one litre of water equals one kilogram. (i.e. a 45000lt tank will require a 100mm reinforced concrete slab to support 46 tonne, the weight of the water and tank combined).

Slimline & Modular Tanks

The narrow base of these tanks concentrates enormous pressure over a small area and makes them more susceptible to any movement or compression in their base. Preferably concrete or paving should be used, as a minimum, a compacted base of any medium that will not compress under the gross weight of the tank full of water can be used.

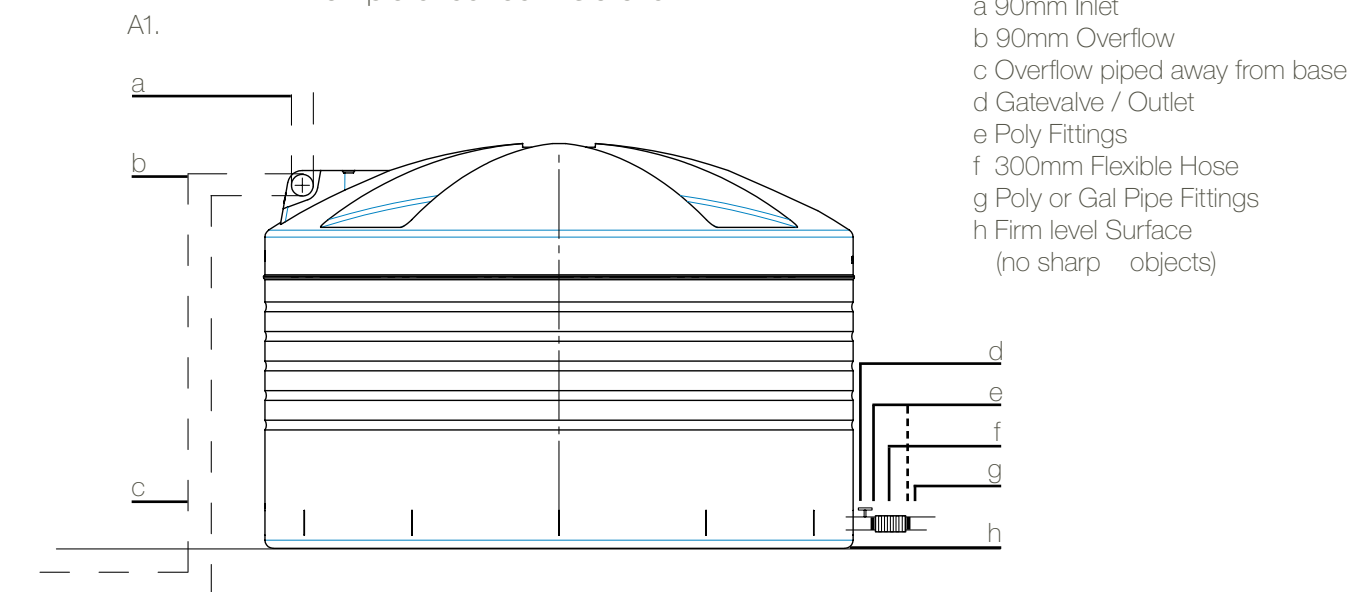
Installation requirements summary

- If a base is being prepared for a “round” tank, ensure the tank site is at least 600mm larger in diameter than the tank, i.e. tank diameter 3.7m, tank site 4.3m. - Slimline a non compactable or erodible base.
- Ensure a flexible connection (i.e. food grade or wine grade suction hose) at least 300mm in length is fitted between the tanks isolation valve and the downstream piping.
- Tie down and secure tank on delivery either by tying down with rope or fill the tank with water to the outlet.
- Tank outlets must not be subjected to any extra force, (i.e. over tightened).
- Suitable thread sealant (i.e. Teflon tape) must be used on all threaded joints.
- Overflow must be connected to the storm water system where available. If there is no storm water connection the overflow must be piped away from base of the tank and the foundation of buildings.
- The overflow pipe's capacity must be equal to or greater than the number of inlet pipes, their sizes and capacities.
- Do not allow the tank site to deteriorate after installation due to any form of erosion or site destruction caused by vermin such as rabbits.
- If the tank is to be installed partially buried in the ground, ensure the base of the tank is buried no more than 600mm below ground level.
- Remember polyethylene tanks are pliable. This feature is what stops polyethylene tank from cracking with ground movement and makes them impact resistant. It also means a polyethylene tank will expand and contract as they fill, and empty. This movement is a natural feature of polyethylene and should be allowed for during installation. It will not affect the warranty or life of the water tank. A round tank can expand by approximately 3% of its original size. A slimline tank, where all the pressure is on the front and back surfaces, can expand by approximately 50mm each side. Always use a flexible connection from the tanks outlet and do not install tanks “hard” against any other structure.
- If a tank is being installed with an interconnect devise (mains / tanks water switching system) ensure that all relevant backflow prevention guidelines are followed. Backflow requirements can vary for State to State , Council to Council so for further details contact your local authorities or plumber
- Your installation must comply with State and Local authority requirements. Installation requirements / guidelines as stated in Standards Australia handbook HB230 must be ad headed to. All plumbing must comply with ASNZ3500. It is the purchaser's responsibility to ensure these regulations are achieved. Information relevant to your local requirement should be available from the building department of your local council offices or from Standards Australia.

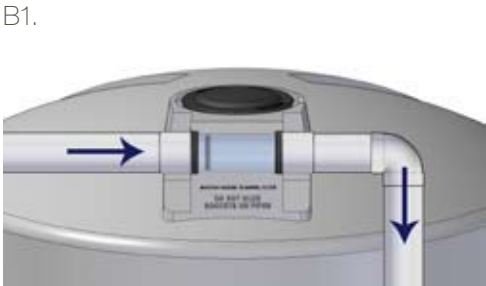
NON-COMPLIANCE WITH ANY OR ALL OF THE ABOVE WILL VOID WARRANTY!

Diagrams

Example of correct installation:



Three examples of RIO filtration system's flexibility:



Correct / incorrect installation with poly pipe:



Tankmasta Warranty Overview: Fix, replace or a pro- rata* money back warranty
(*pro-rata being purchase price less the years of service.)

Your Tankmasta™ above ground water storage tank is warranted for a period of ten years against faulty workmanship and/or material fault, provided installation is carried out in the correct method.

Viscount Rotational Mouldings can not take any responsibility whatsoever for the preparation of tank sites or the installation of its products after delivery. Correct tank site preparation, installation of its products and maintenance of tank and site is the sole responsibility of the purchaser. We recommend installation by a licensed plumber to the requirements of AS3500 and Australian Standards installation handbook HB230. Compliance with State and Local Government regulations, the application for planning permits where applicable is the responsibility of the purchaser.

All rainwater storage tanks are low maintenance not no maintenance. An appropriate maintenance program should be developed in line with your local environment. Cleaning of gutters and inspection of the tank and pipe work should be performed regularly. More detailed information on the formation of a maintenance plan can be found in Standards Australia's HB 230 or ARID's (Australian Rainwater Industry Development Groups) consumer handbook available on www.arid.asn.au.

Warranty Conditions

1. Viscount Rotational Mouldings Pty Ltd warrants that its tanks are free from defects caused by poor workmanship or faulty material.
2. Viscount Rotational Mouldings Pty Ltd warrants that its tanks will be fit for the purpose for which they were designed, namely storing water, for a period of ten years from the date of purchase, subject to the following exceptions: This warranty will not apply where:
 - The tank is damaged on site or during any movement or relocation.
 - Upon request the purchaser fails to produce the original receipt or delivery document as proof of purchase.
 - Where prior repairs have been conducted without the prior knowledge or consent of Tankmasta.
3. As well as to retaining and producing this proof of purchase the purchaser will be requested to advise Tankmasta of the serial number (where applicable). Deliberate defacing or removal of this serial number from the tank ID plate will render this warranty invalid.
4. Viscount Rotational Mouldings Pty Ltd will not be liable for any consequential losses including plumbing costs, loss of stored water, livestock or damage to property.
5. This warranty is only binding upon Viscount Rotational Mouldings Pty Ltd, if notified of the defect or fault in writing within seven (7) days of it occurring, and where the manufacturer has been given the opportunity to inspect the product within twenty-eight (28) days of such notification.
6. In the event the purchaser has cause to rely upon this warranty, Viscount Rotational Mouldings Pty Ltd will at its discretion:
 - Have the tank repaired by one of our personnel or by a qualified repairer nominated or approved by us.
 - Replace the tank.
 - Or a pro- rata (pro-rata being purchase price less the years of service.) money back warranty.

If you have any further query regarding warranty please contact Tankmasta directly by mail by phoning Tankmasta on 1800 775 000.

Terms:

- Product: Tankmasta rainwater tanks are designed for the storage of water with a Specific Gravity (SG) of 1 and ambient temperature up to 55°C or down to 10°C.
- Delivery: Tankmasta will make every effort to deliver by the estimated delivery date. However, we will not be liable for any late deliveries. After evaluation of access and safety requirements, the final delivery site will be at the discretion of the delivery driver. Signing the delivery docket indicates acceptance of the order and the commencement of the warranty period.
- Risk: All matters of risk will transfer to the purchaser upon delivery
- Retention of Title: The title of the tank remains with Tankmasta until the products are paid for in full. Tankmasta reserves the right to retrieve, without liability, unpaid for goods.
- Restocking Fee: Tankmasta reserves the right to charge a restocking fee, where at no fault of Tankmasta's, distribution costs have been incurred but the delivery has not been completed.
- Force Majeure: Tankmasta is not liable for any loss, claim expense or demand arising from events beyond the reasonable control of Tankmasta.
- Place of Contract : All orders will be accepted & processed at VISCOUNT, Carrum Downs (Tankmasta Head Office). Therefore all agreements will be deemed as being made in Victoria and the conditions of supply will be governed and construed in accordance with the laws in force in Victoria.

Inlet Configuration

As mentioned in the Q&A section, Tankmasta RIO filter system offers flexibility and benefits to available with a “traditional” basket strainer.

Tankmasta's inlet filtration set up allows you to choose between the Tankmasta inline ‘flow-through barrel filter’ and the traditional ‘basket filter’ with either a single 100mm or dual 200mm overflow..

Refer Diagram B2 and B3.

Outlet Configuration

The most common mistake made when installing a water tank is to use ‘non-flexible’ piping on tanks outlets. Many people believe “black poly pipe” is flexible, but when this type of pipe is plumbed from the tanks outlet to the ground, it offers no flexibility. Tankmasta recommend the use of food or wine grade flexible suction hose.

The use on Flexible suction hose will eliminate pressure on the tanks outlets as the tanks expands, contract, fills and empties. A 300mm section of flexible suction hose should be installed as shown in diagram A1.

However, if suction hose cannot be sourced and black poly pipe must be used, ensure the installation offers sufficient flex to allow for the lateral side movement of the tanks wall by running at least 400mm of the pipe work above ground and parallel with the tank. Refer Diagram; C1)

What to do if you think you have a problem / Contacting Tankmasta

- 1) Conduct maintenance checks.
- 2) Call Tankmasta (see contact list) free call 1800 775 000 with the information listed below

Please have the following information on hand.

- The date you received your tank.
- The name of the agent you purchased your tanks from.
- The size and color of your tank.
- The serial number of your tank (can be located in a white sticker on the outside of your tank).
- A comprehensive description of the issue.

Common Questions:

Q: How do I clean the filter?

A: Remove filter and clean manually. It is important not to “hard” glue the 100mm threaded couplings that hold the flow through filter. At least one of the 100 mm threaded couplings needs to be unscrewed to access the barrel filter. If a sealant is required, we recommend a flexible, silicone based product be used.

Q: What is flexible hose?

A: Food and wine grade, flexible suction hose.

Q: Why do I have to use flexible hose?

A: Polyethylene tanks are pliable. This feature is what stops polyethylene tank from cracking with ground movement and makes them impact resistant. It also means a polyethylene tank will expand and contract as they fill, and empty. This movement is a natural feature of polyethylene and should be allowed for during installation. This movement will not affect the warranty or life of the tank. A round tank can expand by approximately 3% of its original size. A slimline tank, where all the pressure is on the front and back surfaces, can expand by more than 50mm each side.

Q: How does the inlet/overflow system work?

A: Tankmasta's inlet filtration set up allows you to choose between the Tankmasta inline ‘flow-through barrel filter’ and the traditional ‘basket filter’.

Flow-through barrel filter

The flow-through barrel filter is a part of the RIO filtration system. It is best suited to small roof catchment areas or in installations where a “failsafe” to overflow system is desired (i.e.: rental properties where a maintenance program may not be implemented) In this scenario, if the barrel filter becomes blocked the water is directed to the over flow eliminating any back flow of water that can undermine the tanks base or building foundations that has be associated with a blocked basket strainers.

Additional benefits with the flow through filter is that is it designed to flush environmental waste (leaves, etc.) straight through to your storm water or it can be used as a 200mm overflow if multiple downpipes are directed in the basket strainer.

Traditional basket filter

The basket filter (and filter cover) allows a traditional set up, simply directing water from your down pipe into the top of the basket, using either one or both sides of the 100mm barrel filter as the overflow.

Regardless of which filter is used, the overflow must be connected to the storm water or direct away from the tank to ensure the tanks base or building foundation are not adversely affected by the overflows’ discharge.

Q: What do I do if it leaks?

A: Check fittings are tight or that you have used sufficient plumbing tape. If it is not one of these two issues, call Tankmasta on 1800 775 000 - refer to sectioned titled ‘Calling Tankmasta’.

Q Do I have to get inside the tank to fit the outlet? (Only for tanks with no fittings.)

A: No. There are detailed instructions on installation of brass screw in fittings that is available through our dealer or by contacting Tankmasta on 1800 775 000.

Q: What and why are there two black covers?

A: These are the two inlet covers. To give you the most flexibility Tankmasta's Tanks Urban and Rural Tanks come with dual access hatches. The ADP (Angle Dissemination Pivot) in the center of the roof of all tanks of 20kL and greater capacity, should never be removed. This ADP is a patent design that acts like a keystone in an archway and is an integral part of the roof integrity and design.

Q: How long is the warranty?

A: Tankmasta's aboveground warranty is for ten years.

Q: What dose the warranty include/exclude?

A: A full copy of Tankmasta's warranty is included in this document, please read carefully and if you have any further questions please call Tankmasta on 1800 775 000.

Maintenance Table:

Maintenance Action	Regularity
Clean and check the operation of first flush devices	3 months
Remove acoustic cover from pump and clean in and around where leaf litter and dust can build up between the two.	3 months
Clean gutters, tank inlets and screens.	3-4 months
Check roof (and gutters) and remove accumulated debris, including leaf and other plant material.	6 months
Keep roof catchments clean and clear of mass and lichen.	6 months
Prune overhanging tree branches and foliage.	6 months
Check for evidence animal, bird or insect access to tank, including mosquito larvae. If present, identify and close access points. Larvae may need to be treated - ask the health section of your local council.	6 months
Check for evidence inside the tank of alga growth. If present, find and close points of light entry.	6 months
Check tank for defects (including dints) and repair.	6 months
Check and clean pump filters and strainers; check pump is firmly secured.	6 months
Clean or replace water filters.	6 months
Replace UV lamps on drinking water disinfection systems (If installed).	12 months
Below-ground tanks with mains back-up need to have backflow prevention valves checked by a licensed plumber.	12 months
Check that all signage is legible and compliant with your local councils requirements.	12 months
Remove accumulated sediment (sludge).	2-3 years
If you notice a difference in water quality have your plumber check it out.	As required

*All information on general maintenance was gained from the ARID Rainwater Consumers Guide, available at www.arid.com.au