



SEDIMENT TANK

Installation Guide



V1.0.2

TABLE OF CONTENTS

1. Introduction	1
2. Site Preparation.....	1
3. Tank Positioning	1
4. Inlet & Outlet Connections	2
5. Installation Checklist.....	3
6. General Arrangement (GA) Drawing.....	3
7. Warranty Conditions & Support.....	4

LIQUIMECH SEDIMENT TANK

Installation Guide

1. Introduction

This guide provides instructions for the installation and use of Liquimech Sediment Tanks. These tanks are designed to remove suspended solids from process water, allowing for reuse or controlled discharge in compliance with local regulations.

Follow this guide for step-by-step installation, site preparation requirements, and general arrangement (GA) details to ensure safe and effective operation and maintenance.



Follow all local safety regulations and guidelines.

2. Site Preparation

- ☐ The sediment tank must be installed on a level, stable, load-bearing pad.
- ☐ The pad footprint must be at least 500 mm larger than the tank footprint in all directions.
- ☐ The pad load rating must exceed the nominal tank capacity by a factor of 1.5 (e.g. a 10,000 L tank requires a pad capable of supporting at least 15 t).
- ☐ Concrete or compacted crushed rock is preferred. Sand pads may be used, but care must be taken to ensure overflows or stormwater do not undermine the pad.

3. Tank Positioning

- ☐ Ensure the pad is fully prepared before delivery.
- ☐ Tanks can be positioned using either the forklift pockets or the engineered lifting lugs.
- ☐ Position the tank centrally on the pad to evenly distribute weight.

LIQUIMECH SEDIMENT TANK

Installation Guide

4. Inlet & Outlet Connections

- ❑ Inlet: Located on the higher DN150 flange. Must be plumbed using Table E flanges.
- ❑ Outlet: DN150 flange connection, Table E standard.
- ❑ Drain Plug: Fitted with 50 mm drain plugs for maintenance and flushing.

HOW TO BOLT UP TO A STEEL FLANGE AND ENSURE IT DOESN'T LEAK

1. Preparation

- Inspect the flange faces - ensure both are flat, clean, and free from damage
- Check the gasket is correct for service
- Inspect bolts and nuts
- Lubricate threads and nut faces



Both flanges must be of similar material and rating

2. Gasket Installation

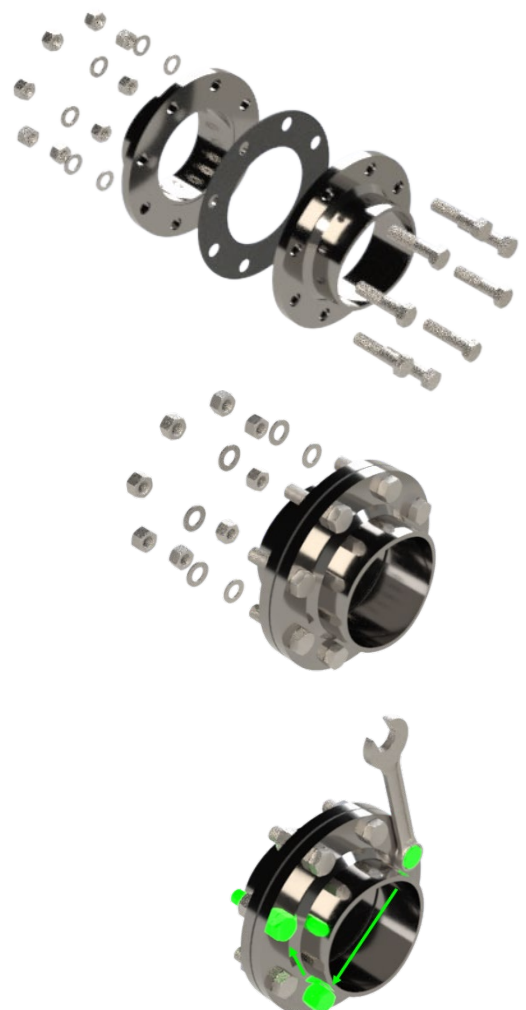
- Center the gasket between the flanges
- Do not use adhesives or tape
- Ensure the gasket does not protrude into the bore

3. Bolt Insertion

- Insert bolts so threads extend fully through nuts
- Install washers under nuts if required

4. Tightening Sequence

- Finger-tighten all nuts
- Follow cross-pattern in stages:
30% - 60% - 100%
- Make final pass at 100% torque clockwise



LIQUIMECH SEDIMENT TANK

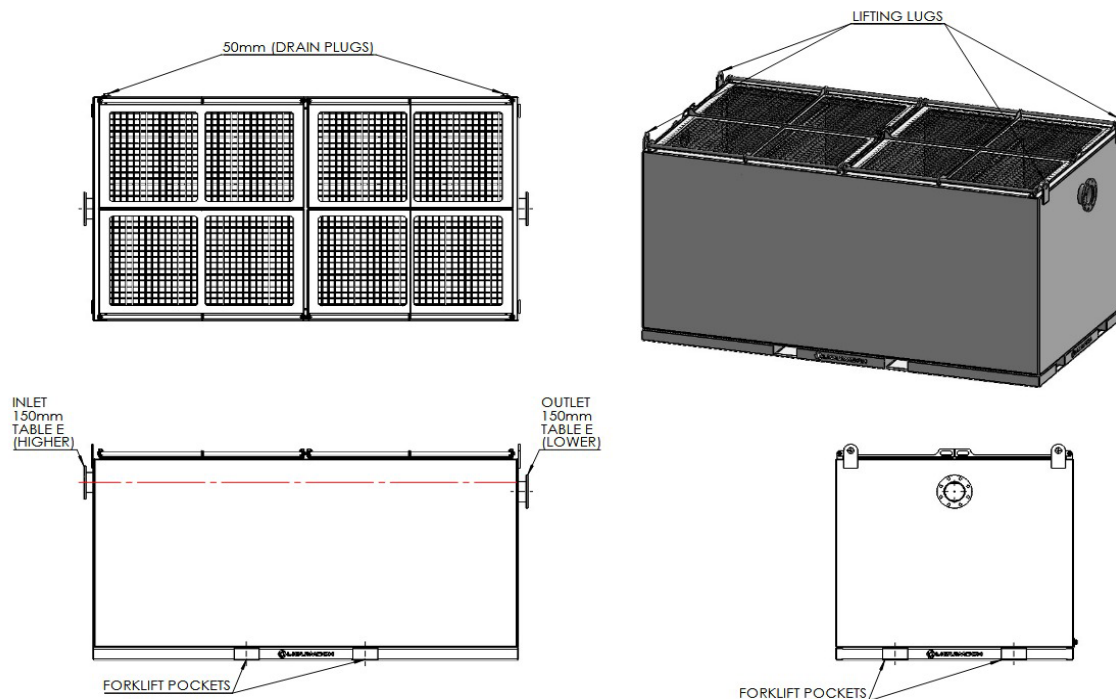
Installation Guide

5. Installation Checklist

- ☐ Confirm pad is at least 500 mm larger than tank footprint
- ☐ Confirm pad load rating exceeds $1.5 \times$ nominal tank capacity
- ☐ Confirm pad is level, load-bearing, and stable
- ☐ Ensure overflows or stormwater cannot undermine the pad
- ☐ Position the tank centrally using forklift pockets or lifting lugs
- ☐ Connect inlet using DN150 Table E flanges
- ☐ Connect outlet using DN150 Table E flanges
- ☐ Ensure drain plugs are accessible for maintenance

6. General Arrangement (GA) Drawing

Refer to the below GA drawing for inlet, outlet, forklift pockets, and lifting lug locations.



LIQUIMECH SEDIMENT TANK

Installation Guide

7. Warranty Conditions & Support

At Liquimech Group Pty Ltd, we are committed to delivering products that meet the highest standards of quality and reliability. Please refer to the Liquimech Warranty Conditions document for complete information on warranty terms, coverage, and claims procedures.

Liquimech provides a 12-month warranty from the date of dispatch.

The warranty will be void if:

- The system is modified without approval.
- Damage results from improper operation or maintenance.
- Liquimech was not involved in commissioning and calibration.

If you have not received the warranty document or have any concerns, feel free to reach out to our team.

Support and spare parts:

Website: www.liquimech.com.au

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You Define, We Design



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