



Polymaster

Your Chemical Storage
and Dosing Partner

Reliability for
every drop



OUR PURPOSE



Our Purpose

To empower Australians to thrive in our toughest environments.

We do this by engineering reliability into everything we create, everything we do, and every relationship we build.

For our Chemical & Industrial customers, we deliver certainty and compliance. We engineer a complete ecosystem of solutions, including certified chemical tanks and integrated dosing systems, backed by a project partnership that guarantees reliability from concept to commissioning.

Reliable by Design

The Enduring Foundation of Your Success

We believe resilience is engineered from the ground up. For those who build and innovate in Australia's toughest environments, a solution must be a fortress of reliability.

Translating deep insight into a comprehensive range of market-specific solutions, every product is engineered with an obsessive focus on quality and built to endure.



Innovation that solves real-world problems.

We respond to industry challenges with intelligent, solutions-driven designs that reduce on-site complexity and risk.

- Dedicated in-house R&D and engineering
- Unique market solutions
- Complete 'plug-and-play' systems



An uncompromising standard of quality and compliance.

Our commitment to quality is absolute, ensuring every product is a specialised industrial solution.

- Certified to AS/NZS 4766 & ISO9001
- Rigorous Quality Assurance (QA) and Control (QC)
- Dedicated Chemical & Industrial plant
- In-house formulated chemical-grade materials



A comprehensive range for every industrial challenge.

We provide the right tool for every job with a comprehensive portfolio of market-specific solutions.

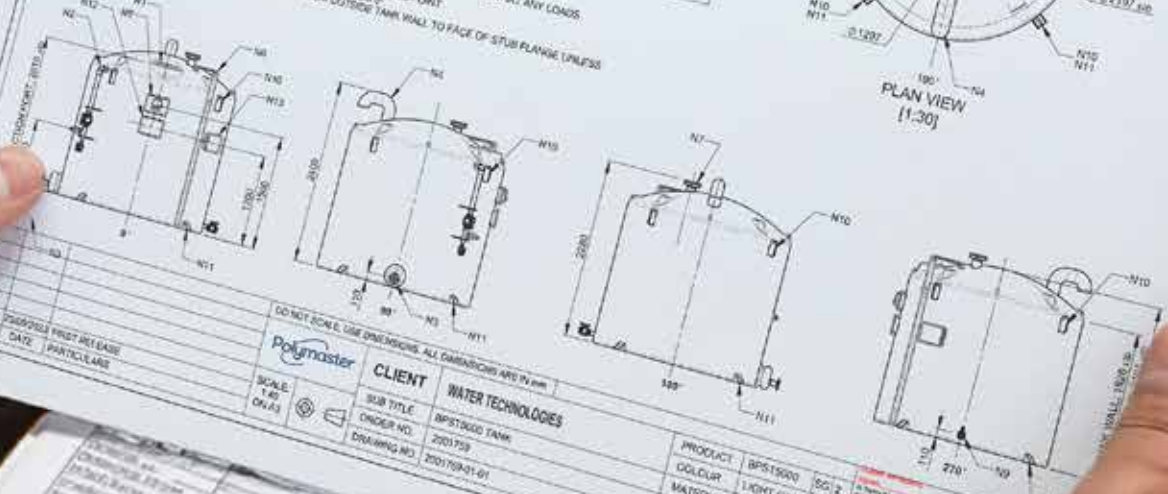
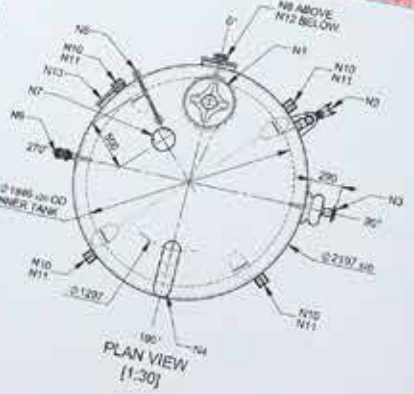
- Specialised process tanks
- Fully integrated dosing systems
- Solutions for complex environments like mine sites

NOZZLE SCHEDULE - BPST5000

ITEM	PT SIZE	ITEM DESCRIPTION	POSITION
N1	-	45° ASPE NON-VENTED SKENER LID - INSPECTION PORT	3" ROOF
N2	40	10mm ZOP FALL ASSEMBLY 60% DAMP-COOK & DRAIN - UPVC VALVES/ATION SEALS	90°
N3	50	80PE STUB FLANGE (1/2" TABLE 2 SS BRIMS) - TANK-OUTLET (REF: SMT 2)	197° ROOF
N4	30	180PE HOOK VENT WITH MESH	NEAR N1
N5	-	INTERNAL TANK OVERFLOW (REFER SHEET 2)	320°
N6	-	MECHANICAL LOAD LEVEL INDICATOR (LOD)	315°
N7	-	180mm LEVEL TRANSMITTER MOUNT FLANGE - VITON SEALS	0°
N8	30	ROPE 2 40mm MALE THREAD ADAPTOR (1/2" 1.8" PVC-U BALL VALVE - BUNG DRAIN)	270°
N9	30	1x HOLE LIFTING LUGS (SPREADER BAR REQUIRED)	40°, 130°, 220°, 310°
N10	-	4x DOUBLE GUSSETED BOLT DOWN LUGS	40°, 130°, 220°, 310°
N11	-	ENGRAVED STAINLESS STEEL MOUNT PLATE ON PE MOUNT PLATE	0°
N12	-	EQUIPMENT MOUNTING PANEL (PLATE ONLY)	315°

NOTES

1. USER TO REFER TO RELEVANT TANK INSTALLATION GUIDE
2. ALL FITTINGS/CONNECTORS ARE TO BE INDEPENDENTLY SUPPORTED AND ISOLATED SO THAT ANY LOADS ASSOCIATED WITH EXTERNAL PIPE WORK ARE NOT TRANSMITTED TO TANK.
3. INSPECTION PORT POSITION IS FIXED & MUST REMAIN AS A REFERENCE POINT.
4. ALL NOZZLES ARE TO BE IN ACCORDANCE WITH CLOSURE FROM 20.
5. ALL WALL MOUNTED STUB FLANGES TO BE 150mm FROM OUTSIDE TANK WALL TO FACE OF STUB FLANGE UNLESS DIMENSIONED OTHERWISE.



DATE: 25/05/2023
 DRAWN: ZP
 CHECKED: ZP

Polymaster CLIENT: WATER TECHNOLOGIES
 SUB TITLE: BPST5000 TANK
 ORDER NO: 2201759
 DRAWING NO: 2201759-01

PRODUCT: BPST5000 SC 2
 COLOUR: LIGHT GREY
 MATERIAL: OCTENE T080
 CONTENTS: 8000 HYPOCHLORITE
 WEIGHT (KG):

CHECKED: ZP
 DRAWN: ZP
 DATE: 25/05/2023

Reliable Service

Your Project Success is Our Priority

In Australia's toughest environments, reliable service isn't a bonus—it's a lifeline; it's our promise that our partners are never alone.

Our service is how we ensure the reliability we design becomes a reality in the field, from dedicated project management to seamless logistics, enabling our partners to operate with total confidence and success.



Getting the design and material specification exactly right from the start

Our in-house engineering team works directly with yours to provide expert guidance and detailed designs.

- Detailed GA & CAD drawings
- In-house polymer & chemical expertise
- Custom solution development



Ensuring quality and staying in control of a complex build

We provide complete transparency and control with a dedicated Project Manager for your build.

- ISO9001 & AS/NZS 4766 certified manufacturing
- Dedicated Project Manager
- Full QA reporting & traceability



Managing complex logistics and ensuring a smooth on-site handover.

We manage the complex logistics from delivery to handover to guarantee a successful commissioning.

- Coordinated on-site delivery
- Expert installation & training support
- Comprehensive documentation (O&M, ITPs)



Reliable Partnerships

Your Partner in Project Success

We believe the most resilient solutions are built on a foundation of trust. We don't just supply products; we build enduring partnerships.

By grounding every relationship in Australian integrity, we create a network of shared success that empowers our clients and their communities to thrive for the long term.



Proactive expertise to de-risk your project from day one.

We act as a true engineering partner, investing our expertise early to de-risk the design phase.

- Trusted technical advisor for engineers
- Robust data & design resources (STEP files)
- Expert guidance before a PO is raised



A collaborative approach focused on shared success.

We act as an extension of your team, aligning with your goals to ensure a successful outcome.

- Alignment with your project goals
- Transparent communication to protect your margin
- Unwavering support for the end client



A secure supply chain for long-term confidence.

Our long-term reliability is assured by the strength of our supply chain, our world-class component partners, and the financial security of being part of a global industry leader.

- Financial stability backed by Tank Holding Corp
- Strong partnerships with key component suppliers
- Approved vendor status for major industry leaders



OUR PRODUCTS

Our Products





Self Bunded Tanks



Cone Bottom Tanks



Dosing Systems



Chemical Storage with Agitators & Frames



Enclosed IBC Bunds



Add-Ons / Accessories



Process Tanks



Self-Bunded Chemical Tanks

The certainty of engineered containment



The ultimate storage solution for chemicals and dangerous liquids.

Specially formulated Polymaster PE material options are available to safely contain extra aggressive chemicals such as **sodium hypochlorite, sulphuric & hydrochloric acid, and sodium hydroxide.**



70%
cost reduction on installation costs



6 Weeks
reduced construction time



66%
less footprint



Certified Design
AS/NZS4766



UV Resistance
suitable for outdoor application



Removes need
for traditional concrete bund



110%
bund capacity to comply with AS3780



1,965
chemicals can be stored



Engineered
up to 2SG for heavy liquids



Tanks
can be easily relocated from site to site



Save time
testing and fit out completed before delivery to site



Sizes Available
110L to 30,000L

Level Transmitter mount

Weather proof vent

Mechanical level indicator

Store over 1,965 chemicals - Multiple grades of PE available

Outer tank exceeds 110% capacity of storage tank - AS Regulations

Positioning Lugs

Bund alarm float switch

Bund drain

Outlet Configuration - Sealed to inner & outer tank

Inspection hatches

Lifting lugs

High level alarm float switch

Bund alarm & High level alarm

Top Fill Assembly with camlock & drain

Tank outlet & valve



**Standard configuration shown. Custom configuration available on request*

Self Bunded Chemical Tank Chemical Unloading / Truckfill Station

The Truckfill Station enables safe, efficient chemical transfer from delivery trucks to storage tanks. Built to AS3780 standards, it ensures safety, compliance, and operational efficiency.

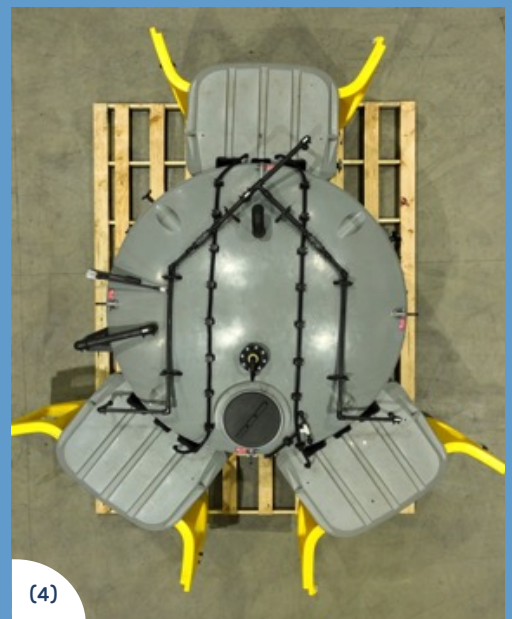
Included Features:

- Multifunctional Controller: Automates chemical transfer with power cut-off, remote monitoring, and alarms.
- Clear Display: Large HMI shows tank level radar readings.
- Beacon & Buzzer Alarms: Visual and audible alerts warn of critical levels.
- Alarm Reset Button: Simplifies control and operation.
- Double Door Cabinet: Protects controls in a spill-resistant housing.
- Custom configuration available on request



Other Add-Ons / Accessories Include:

1. Leaktite Valve Guard
2. Joining Tanks
3. Chemical Dosing Systems
4. Multiple Cabinets





CASE STUDY



Gisborne Recycled Water Plant Upgrade

Polymaster provided a full chemical upgrade solution including truckfill control panels, self banded storage and custom dosing systems designed to the client's specifications.



Chemical Dosing Systems

A turnkey system that delivers precision and removes on-site risk.

Polymaster offers both heavily customised and simple dosing systems. We are able to design & manufacture a system based on your process design, such as piping and instrumentation diagram (P&ID).

A robust cabinet design provides the operators with a safe environment to monitor & maintain all equipment.



Plug 'N' Play
easy install onsite



Secure
lockable doors to keep system safe



UV Resistant
suitable for outdoor application



Pipework and Valves
also with Instrumentation



Versatile
provision for electrical and instrumentation



Weatherproof
to protect your dosing system



Chemical Resistant
PE material not subject to corrosion



Electrical
power control panel



Integrated
can be fitted to Polymaster double walled tanks



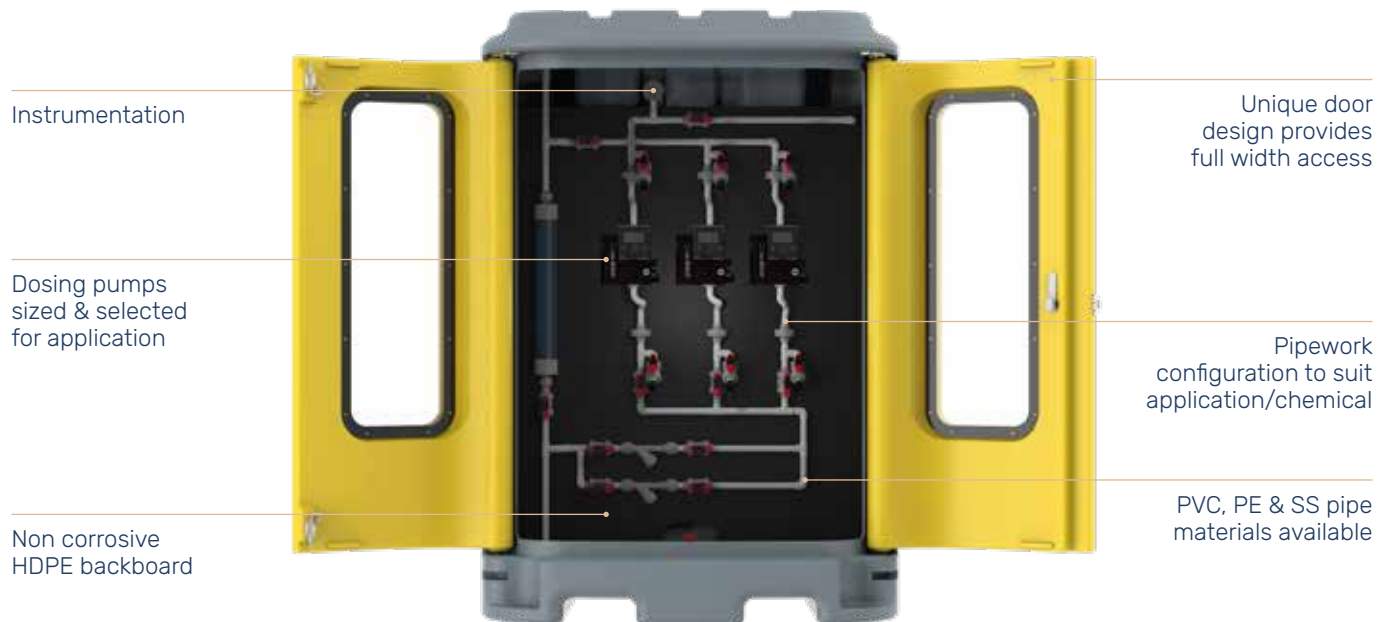
Safe
view windows to check for leaks



Pre-engineered and custom available



Dosing Pumps
with waterproof connection points



Instrumentation

Dosing pumps sized & selected for application

Non corrosive HDPE backboard

Unique door design provides full width access

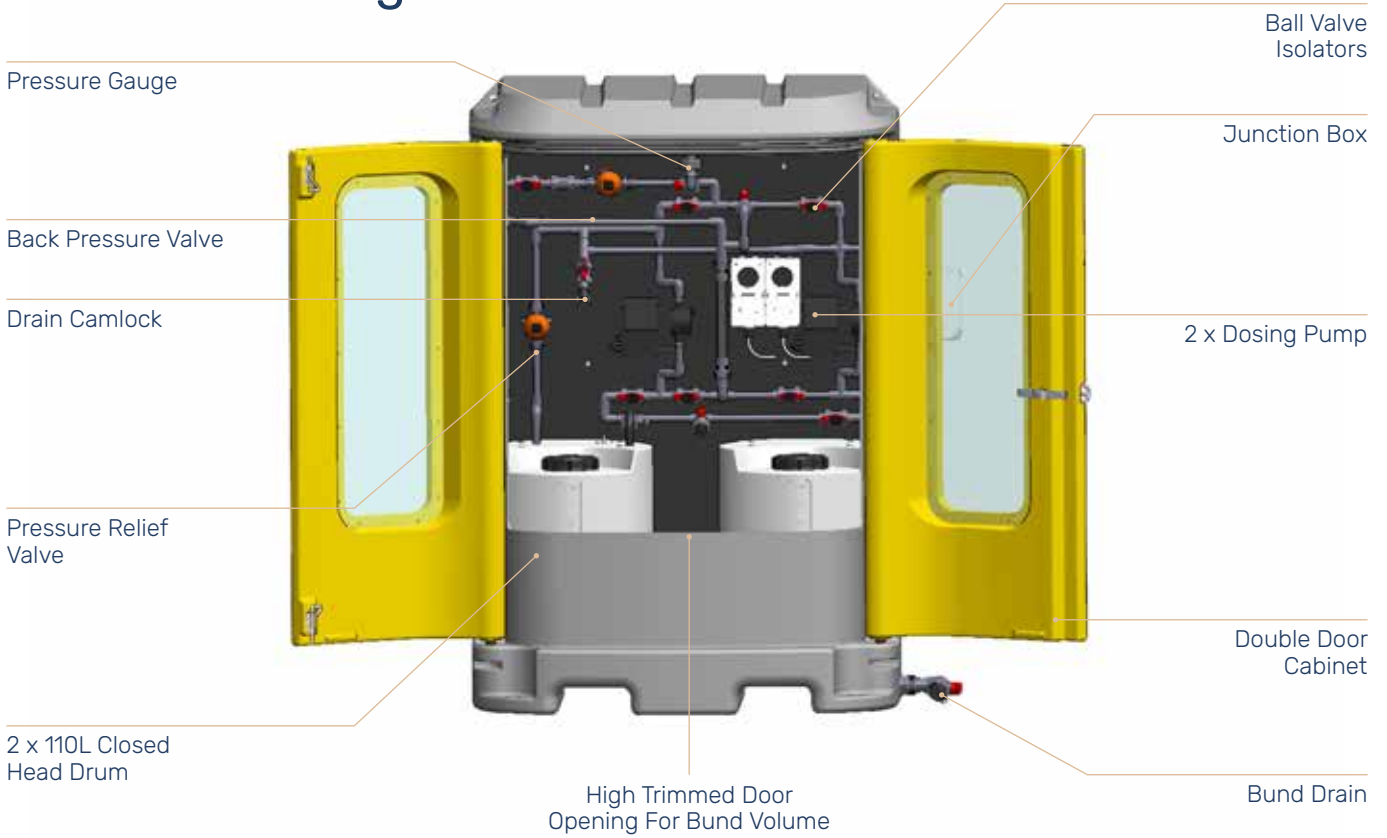
Pipework configuration to suit application/chemical

PVC, PE & SS pipe materials available

From pH adjustment and disinfection to CIP (Clean In Place), coagulation, and advanced water treatment, we provide proven, tailored solutions for every process stage - with dosing options from stand-alone cabinets to complete packaged systems.

OUR PRODUCTS

Chemical Dosing Unit



Dosing Cabinet Integrated with Self-Bunded Tank





CASE STUDY



Reverse Osmosis (RO) Plant on mine site uses Polymaster's chemical dosing systems and process tanks to increase water treatment capacity.



Enclosed IBC Bunds

Turn your IBC into a secure,
all-weather dosing station.

The Enclosed IBC Bund protects the IBC from weather and has a provision for a chemical dosing system inside the lockable cabinet.

Constructed from high-grade polyethylene material, the Enclosed IBC Bund allows easy forklift movement in/out, with simple connection made to a 250L day tank and eliminating OH&S issues associated with IBC handling.



Reduce Downtime
continuous chemical dosing with 250L day tank



All Weather
secure unit designed to keep water out



Prevents OH&S Incidents
easy & safe connection to IBC transfer hose



Optional Integrated Dosing
dosing pumps and systems easily incorporated into functional front cabinet



Easy IBS Loading
IBC's can be loaded from 3 different sides by forklift



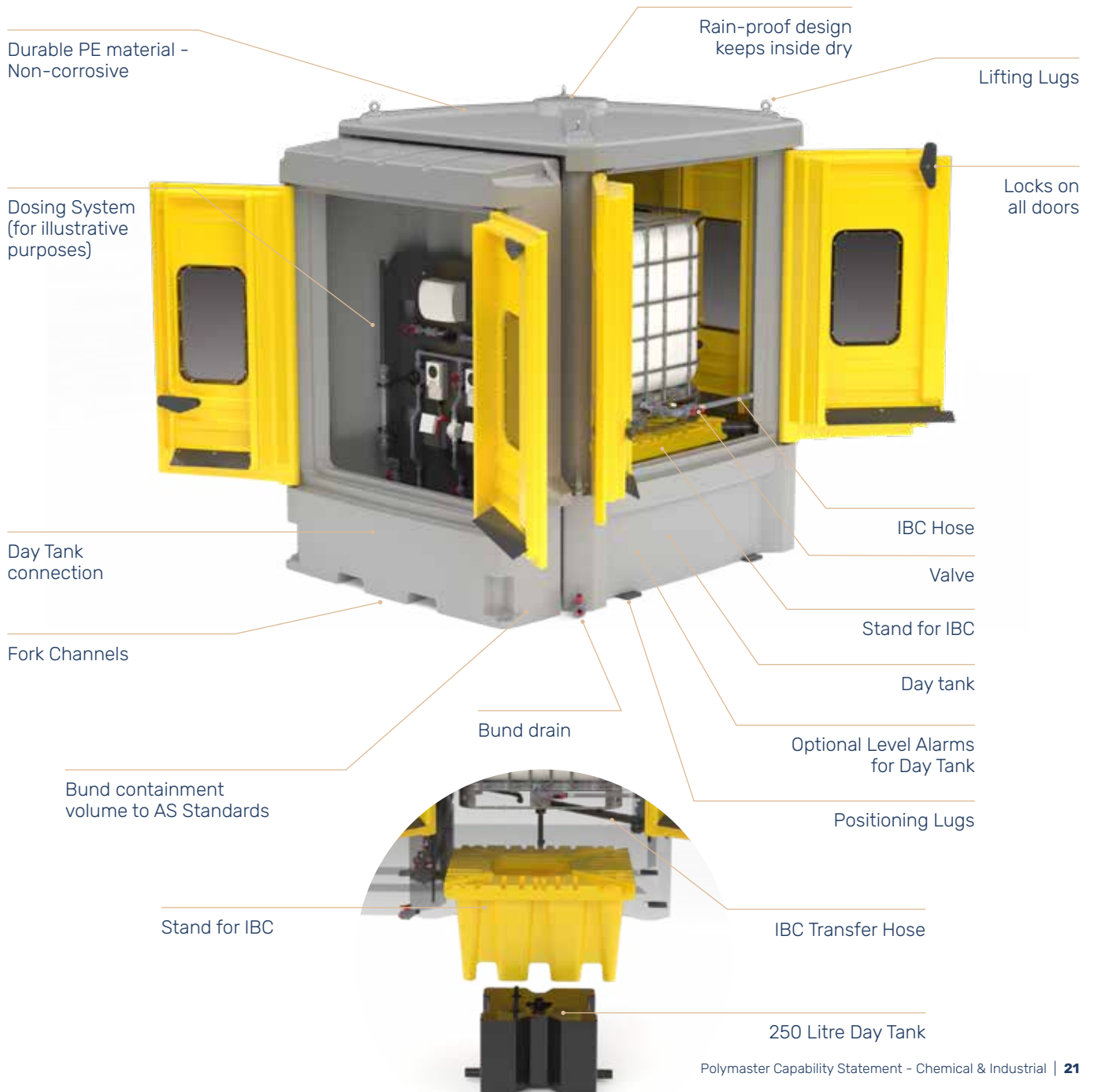
110%
bund capacity to comply with AS3780



Secure
all doors can be locked to keep system secure



Chemical Resistant
polyethylene construction - no corrosion with chemicals





Chemical & Process Tanks

Configured to suit any application.

Customising Chemical and Process Tanks is what we do best. From selecting the right material to welding fittings exactly where needed, we ensure every tank is built to your specifications.

Our engineering team can tailor solutions for chemical, industrial, or process water storage.



One piece moulded construction
not fabricated



Certified Design
AS/NZS4766



Engineered up to 2SG for heavy liquids



Holds Aggressive Chemicals
such as sulphuric acid



UV Resistance
suitable for outdoor application



1,965 chemicals
can be stored



Hydrostatic Tested



Available
in over 5 different polyethylene (PE) grades



200L up to 50,000L



Largest
single piece PE tank in Australia



Engineered Drawings
& full QA process on every tank

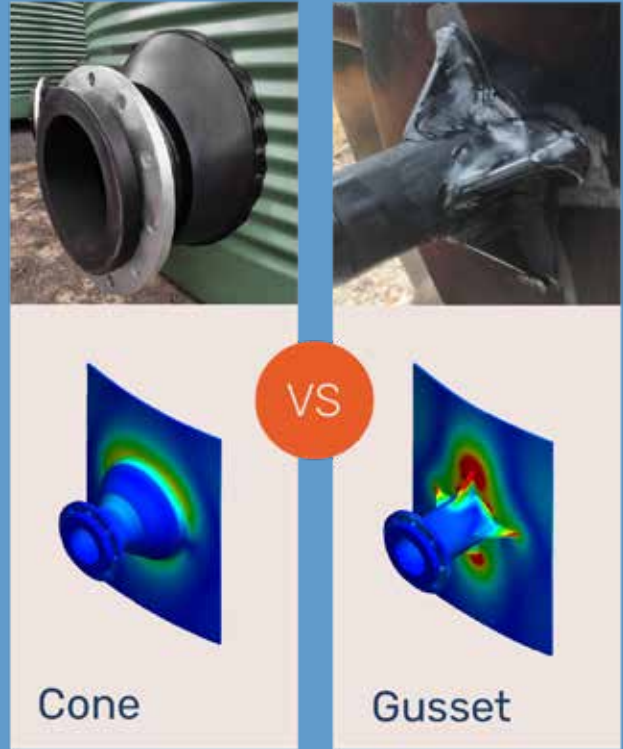


Option for storing higher temperature liquids.



OUR PRODUCTS

Optimal fitting support is vital for tank longevity. Welded gussets create stress points, while Polymaster's support cones evenly distribute loads for a stronger, longer-lasting tank.



CASE STUDIES



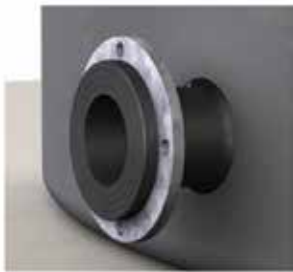
Leading Lithium producer in the Pilbara builds new processing plant:

Polymaster provides storage solutions for chemical concentrations, chemical dilution and process water.



Advanced Resource Recovery Centre

Polymaster delivers robust, purpose-built storage solutions for its large-scale water treatment and reuse system.



Flanged Connection
– Galvanised, Stainless Steel, PVC Backing Rings



Welded BSP Fittings
– Male / Female



Stiffening cone
on larger fittings
- Stronger & safer
than gussets

Anti-Vortex Assemblies



- Designed for high wind terrains
- Simple & easy installation
- Reduces number of holding bolts

Restraint System



Side Access Manways



Stainless Steel Name Plate



Screw Lids
– Vented / Non-vented





Cone Bottom Tanks

Efficient sludge, clarification,
and clean-in-place (CIP) solutions.

Cone Bottom Tanks optimise sludge control, clarification, and CIP processes with efficient solids separation and clean discharge. Designed for flexibility, they deliver dependable performance across mining, water, and industrial operations.

Common assemblies installed within sludge tanks include:

- Tundish Overflows
- Stilling Wells
- Baffles
- Sample points on side of tank
- Clarifiers



One piece moulded construction
not fabricated



600L to 30,000L
up to 1.5SG for heavy liquids



Engineered Drawings
& full QA process on every tank



50-degree Cone
for separating solids from the liquid

Typical Sludge Tank Assemblies

Continuous Process



- Stilling well for minimum disturbance
- Tee piece outlets – cleaner water

Batch Application



- Multiple outlets for sampling





Self-Draining Tanks

Ensure complete liquid drainage
for cleaner, safer operations.

The sloped base directs every drop to the outlet, reducing contamination and downtime during changeovers.

Used across a range of critical liquid applications, including:

- Clean in Place Processes (CIP)
- Process water systems
- Liquid waste collection
- Industrial and treatment facilities
- Contamination-free transfer and storage



100% Drainage Base
no liquid retention



Engineered Slope Design
directs flow to outlet



23,000L to 33,000L
rated for liquid to 1.5SG



Custom Fittings
tailored to site requirements



Corrosion Resistant
1,965 chemicals can be stored



Easy Maintenance
simplified cleaning and inspection



One Piece mould construction



Australian Engineered
Designed and manufactured locally

Self-Draining Base



Sump

Gradual Slope



Specialised Solutions

Chat with us to learn more about our comprehensive range of product solutions.

Cage Buster

A durable, reusable IBC tote designed to replace single-use metal caged totes. Offers superior strength, chemical compatibility, and sustainability while ensuring safety and compliance.



Agitators & Frames

Agitators and frames are designed to suit your application to ensure optimal mixing performance. They can be added to any tank in our range.



Baffle Tanks

Designed for precise flow and separation in chemical and water processes. Baffles are an effective solution for chlorine contact tanks or solids separation.



Electrical Instrumentation

Fully configurable systems with level sensors, flow meters, and telemetry for accurate monitoring and seamless plant integration.



Aeration Tanks

Optimised for oxygen transfer in biological processing. Engineered geometry enhances air distribution and treatment efficiency.



High Temperature Tanks

Built from heat-stabilised polypropylene to handle high temperatures. Ideal for hot liquids or thermal cycling applications.



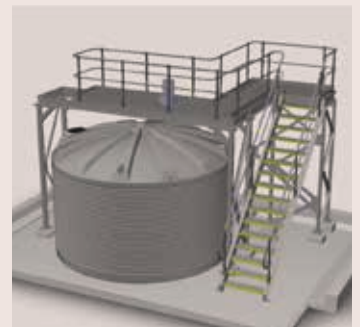
Insulated & Heated Tanks

Maintain stable liquid temperature with insulated walls or integrated heating - from preventing caustic from freezing to keeping potable water cool.



Tank Access & Skid Frames

Modular access systems with ladders and platforms for safety. Skid frames enable portable installation and integration with dosing or pumping systems.



Lifting & Tie Down Kits

Integrated lifting lugs and tie-downs for secure transport and stability. Certified for high wind and Region C & D conditions.



Proven in Australia's Toughest Environments

In the most demanding environments, where communities and enterprises depend on enduring solutions to thrive, we deliver.



Australia's leading Oil & Gas exploration and production company:

Polymaster was their choice of storage tank supplier for extracted groundwater.



Bird in Hand is a family winery located in South Australia:

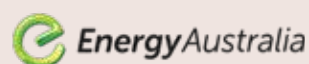
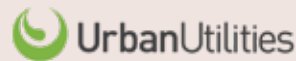
Working with a water treatment company, Polymaster provided tanks to support the efficient operation of this wastewater treatment facility.



Alumina Refinery in Queensland:

Self Bunded Tanks and Dosing System for 98% Sulphuric Acid provides refineries with a fast solution for replacing their existing storage set-up.

Trusted by Industry Leaders



How We Can Help

At Polymaster, we go beyond supplying storage solutions – we support you every step of the way.



On-Site & Online Support

Our technical team conducts site visits and Teams meetings to review layouts, assess systems, and provide tailored recommendations.



Technical Resources

Access CAD files, drawings, and product data directly from our website to simplify your design process.



Standards & Compliance

We offer guidance on relevant Australian Standards and client specific mechanical specifications, helping ensure your project meets safety and environmental requirements.



Tailored System Design

From chemical storage to dosing systems, we work with you to deliver efficient, compliant, and fit-for-purpose solutions.

Real support. Real expertise. Real results.



Get in touch

Speak to one of our chemical dosing specialists about your specific project needs.



We're committed to doing what's right – for our people, our planet, and our communities.



Health and Safety

Safety comes first. We maintain the highest standards to ensure every workplace is safe and compliant.



Protecting the Environment

Sustainability drives what we do – from enabling water reuse and treatment, to replacing outdated bund systems with modern, sealed polyethylene solutions. We recycle, conserve energy, and power our sites with large solar farms that give back to the grid.



Supporting the Community

We actively support the communities we operate in through local involvement, donations, and partnerships that make a lasting difference.



Your Team of Reliability Experts

When you partner with Polymaster, you're not just buying a product; you're gaining a dedicated Australian team committed to ensuring your project thrives. Meet the experts who make it happen:

Our Engineers

The Experts in Reliable Design: They are seasoned problem-solvers who meticulously engineer every solution for quality, compliance, and endurance in Australia's toughest environments.

Our Project Managers

Your Lifeline of Reliable Service: Acting as your single point of contact, they de-risk complex orders, manage seamless logistics, and ensure the reliability we design becomes a reality in the field.

Our Consultants

Forging Reliable Partnerships: Trained to listen with empathy, they apply their technical expertise to solve what truly matters for your project, building a partnership founded on trust and shared success.



“With excellent pre-project assistance, and a concerted effort by all involved during the design and build, our tanks were delivered to the customer inside schedule, and more than a week ahead of our projected time frame.

This is a fantastic result, and we look forward to partnering with Polymaster Industrial again.”

Mark L., Project Engineer
Water and Energy Technology Provider



Let's discuss your next project



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