

Bulk Diesel Storage Tanks

Installation, Operation &
Maintenance Manual



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Polymaster

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ABOUT THIS PRODUCT

Polymaster Bulk Diesel Storage Tanks provide cost-effective, high-capacity static diesel storage for farms and businesses with an existing compliant bunded area, or space to construct one. Built from inert, UV-stabilised diesel-grade polyethylene, tanks eliminate the rust and internal contamination risk of steel tanks, keeping stored fuel clean.

Available in 5,000L, 7,000L and 10,000L capacities, tanks can be optioned with an integrated high-flow pump kit for a complete storage and dispensing station. Tanks are Australian made and manufactured to AS/NZS 4766:2006.

QUALITY ASSURANCE

By following the installation requirements in this manual, this product will give you many years of trouble-free service.

One-piece rotationally moulded polyethylene construction – no welds or joints to fail, leak or rust

Rust-free, inert construction guarantees clean, uncontaminated diesel

Available in 5,000L, 7,000L and 10,000L capacities

Can be optioned with an integrated high-flow pump kit for complete storage and dispensing in one unit

Designed for installation on a suitable compliant base – reinforced concrete slab or compacted road base

Manufactured to AS/NZS 4766:2006

QUALITY ASSURANCE

“PE – Polyethylene, UV-stabilised diesel-grade resin for harsh Australian conditions

Made from premium polyethylene resin that meets the material requirements of AS/NZS 4766

Tanks are designed using engineering methods including finite element analysis (FEA) to ensure structural integrity”

AUSTRALIAN STANDARDS

Polymaster is certified to ISO 9001:2015 International Standards and undertakes regular audits from third-party auditors.

Polymaster Bulk Diesel Storage Tanks are manufactured to AS/NZS 4766:2006 – BSI Benchmark certified (Licence BMP 657671).

Every tank is labelled with full manufacturing details, including a serial number, for complete traceability.



PRODUCT CERTIFICATION



BSI Certified Product

AS/NZS 4766:2006 Lic:BMP No 657671
Australian/New Zealand Standards

GENERAL HEALTH & SAFETY

IMPORTANT: READ OPERATION MANUAL IN DETAIL BEFORE USE & COMPLY WITH ALL INSTRUCTIONS HEREIN. OPERATION MANUAL SHOULD BE KEPT WITH THE EQUIPMENT AT ALL TIMES.

- This manual contains important information concerning the safe installation and use of this product. Read the manual carefully before installation and use. Pay attention to all safety warnings.
- Installation and use of this product should only be carried out by properly trained and approved personnel.
- Users of this product are responsible for the safe and correct use of this product.
- Any changes to this product, which have been done without consulting the manufacturer, will invalidate all warranties and guarantees.
- The components must not be altered or tampered with, due to potential risks to personnel.
- The manufacturer will not be responsible for any accidents or damages caused by incorrect installation or use of this product.
- This product is only suitable for storage and dispensing of Diesel Fuel.
- The product contains electrical devices which are not suited for use in areas where there may be risks of explosion.

The Diesel Fuel must be kept away from skin, eyes and never taken internally. Refer to Poisons Information for assistance.

INSTALLATION & HANDLING

GENERAL REQUIREMENTS

These instructions should be read in their entirety before commencing installation of the product. For all tank installation and maintenance, please take into consideration Health & Safety, Local Building Regulations and local fuel distributors policies.

BASE & FOUNDATION REQUIREMENTS

A solid minimum 45mm thick base or Plinth extending 300mm on all sides must be made from Concrete or bitumen. This plinth is to be engineered by the user.

If this is not possible, the product must be installed directly on a level, secure and non-combustible base. Base material is to be maximum 5mm particle size, e.g. "Crusher Dust".

Where a non-concrete/bitumen base is used, engineering of the restraint or tethering for local conditions is by the customer.

SECURING THE TANK

Determine if product needs to be secured in place in exposed conditions. Do not drill holes in the tank.

Restraint for site specific, latent or environmental conditions is by others. Engineering of any restraint or tethering system to suit specific local conditions is the responsibility of the customer/end user.

FUEL DE-ACTIVATOR

Determine if a fuel de-activator should be used depending on storage conditions and duration. Refer to the fuel supplier for further information.

PRE-INSTALLATION INSPECTION

Prior to installing, inspect for damage. If damaged, do not install.

ANTI-STATIC EARTH WIRE

This product is supplied with an anti-static earth wire & probe. Ensure the probe is driven at least 600mm into ground & securely attached before initial fill.

POST-INSTALLATION

After installation, please ensure that this instruction booklet is left with the end user for future reference.

For further advice, contact Polymaster on 1800 062 064.

FILLING & DISPENSING

LEVEL INDICATOR INFORMATION

During the first fill of the tank the level indicator may show less volume than that filled. The level indicator minimum read point is placed at the base of the tank. The maximum level must NOT be exceeded.

FILLING PROCEDURE

- Filling should be performed only under constant supervision of an authorized person as required by law.
- This tank can only be filled by a tanker equipped with a female camlock coupling.
- Ensure dispensing nozzle is in the holster.
- Fit delivery hose to cam-lock coupling.
- Fill tank in normal manner.
- Stop filling when the desired amount has been dispensed into tank.
- Disconnect delivery hose from the coupling.

SERVICE & MAINTENANCE

- Keep all tank equipment in good working condition.
- This product should only be serviced by Polymaster approved qualified personnel. Please contact Polymaster for further details.
- Spare parts must comply with the requirements of the manufacturer.
- A daily check should be carried out of the visual condition of the tank, devices and power supply.
- Any faults should be reported to the tank supplier immediately.
- Protect against unauthorized access.
- This product should be serviced by qualified personnel every 6 months or every 50,000 litres dispensed, depending on which occurs first. Refer to the Care & Troubleshooting guide for specific service intervals.
- Transport and store the tank so as not to damage the tank walls.
- Do a check flow run and ensure devices are within tolerances.
- Ensure no foreign material is entering the product.
- If the station has not been used for an extended period, run contents through the dispenser for at least 10 seconds and dispose of appropriately.
- Earth Cable & connections must be inspected at regular intervals to ensure their electrical continuity.
- For further information, please contact Polymaster on 1800 062 064 or refer to additional equipment manuals.

RECOMMENDED CARE INSTRUCTIONS

ITEM/AREA OF INTEREST	ACTION RECOMMENDED	FREQUENCY
Flow Meter	Check the operation of the meter to ensure that the correct litre-age is being dispensed.	As Used / 3 Months
Valves	Check the condition of the fill line ball valve when filling unit. Check suction line ball valve at regular intervals.	As Used / 3 Months
Moving	ONLY MOVE UNIT WHEN COMPLETELY EMPTY	As Needed
Foundation/Base	Check the condition of the tank foundation for any erosion, cracking or subsidence. Repair as required. Ensure any repair materials meet the Installation Guide requirements.	3 Months
Earth Rod	Ensure the earth rod is installed as per the Installation Guide. Ensure that the ground around the earth rod is moist. Contact Polymaster if further information is required.	3 Months

TROUBLESHOOTING

TOPIC	POSSIBLE CAUSE	ACTION	CONTACT
Little or no diesel being dispensed while pump is running	Build-up of dirt in nozzle	Clean nozzle, use a clean damp cloth. Use a pipe cleaner for hose internal if required. In this case, safely dispose of contaminated fuel in line with environmental requirements.	Not Required
	Pump valve turned off	Turn pump valve on to fully open.	Not Required
	Pump blocked	Turn off Pump. Remove filter strainer, thoroughly clean & replace.	Not Required
	Insufficient tank level	Refill tank to desired level	Not Required
	Excessive tank vacuum	Check 2-way tank breather and clean if required.	Polymaster for replacement
	Delivery hose too long	Confirm hose is Polymaster supplied part. If changed or extended, replace with correct Polymaster part.	Polymaster for replacement part
	Pipe/Vacuum leak	Inspect all pipework/fittings and replace any that are damaged.	Polymaster
	By-pass valve	Release nozzle rapidly, re-start pump, inspect if required	Polymaster

TROUBLESHOOTING

TOPIC	POSSIBLE CAUSE	ACTION	CONTACT
Pump not running or working	Water Capture blocked	Replace the water capture filter and ensure there is no blockage. Part code DCF25F	Polymaster
	No power supply	Check there is power to station.	Not Required
	Power to pump not on	Check that the switch on the physical pump is turned on. Check power supply to complete unit is correctly connected.	Not Required
	Electrical fault	Check power to pump, if no power contact supplier.	Power Supplier
	Excessive tank vacuum	Check 2-way tank breather and clean if required.	Polymaster for replacement
Pump making squealing/scratching or grinding sound	Dirt or debris may have entered the pump	Cease use of the system. Inspect tank level and quality of fuel.	Polymaster
Water present in diesel when dispensed	Water ingress to internal tank	Check the manhole cover is fitted correctly and sealed, replace water filter cartridge. Review age of diesel fuel. Perform flush operation into approved container to remove any water contaminated fuel. Dispose of fuel in line with environmental requirements.	Polymaster
Static shock felt when pumping diesel	Static electricity build-up in the hose	Check that all earth connections comply to installation guidelines. If static electricity remains contact Polymaster	Polymaster

DISPENSING KIT

PRODUCT SPECIFICATIONS

Product Version	Flow Capacity (LPM)	Minimum Hose Length (M)
12V	56	4
240V	70	6

SETUP

- **Note: Setup instruction for the tank itself must be observed/action prior to using your new dispenser kit.**
- Your new dispenser kit will be ready to use from delivery. Please follow the below steps:
- Remove any packaging used to protect the dispenser kit during transport
- Prior to connecting to power, ensure cables are in good/serviceable condition
- Connect power to your dispenser (12V DC, or 240V AC depending on variant)
- Ensure all fittings/items are secured and have not become loose/free during transport
- Ensure filter is present/secured

USAGE

- **Note: Prior to usage, ensure that power cable is in serviceable condition**
- Open the dispenser kits isolation valve
- Remove nozzle from holster
- Lift metal tab that resides under the nozzle when holstered, to start the pump
- Dispense required volume of diesel
- Holster nozzle, which will automatically cut pump
- Ensure valve is isolated when dispenser is not in use

MAINTENANCE NOTES

The dispenser kit is supplied with a water captor filter. If the fuel delivery performance of the dispenser unit begins to deteriorate, cease usage, and investigate potential water contamination in filter/tank.

The captor filter contains water absorbent beads, which will swell and cause flow rate reduction if water is present to warn the user.



WARRANTY

Polymaster products are guaranteed against material or manufacturing defect.

To make a warranty claim, visit polymaster.com.au/warranty

Item	Warranty
Tank	5 years
Pump	12 months
Nozzle and Hose	3 months

WARRANTY CONDITIONS

- This warranty applies provided that the following criteria are adhered to (applicable to all models):
- The tank is installed and commissioned in accordance with the instructions outlined in the Installation and User Manual
- The tank is installed and commissioned by a suitably qualified engineer
- The tank has not been subject to misuse, careless handling or faulty installation. Any repairs have not been attempted or carried out other than by authorized, competent service staff
- The tank has been purchased by the end user and is not for hire purposes
- The tank has not been filled at a rate exceeding 400 litres per minute
- The tank is installed above ground
- The tank is inspected every 6 months or every 50,000 litres dispensed, depending on which occurs first, by a suitably qualified service Engineer or Technician
- Immediately upon discovery of any defect in the tank, steps are taken to mitigate loss by contacting the fuel supplier and if necessary, arrange for tank to be drained pending the supply of a new tank
- Immediately upon discovery of any defect you contact Polymaster and allow a representative to inspect the tank and its surroundings and where necessary carry out any repairs (before any attempts are made to move the tank)

WARRANTY EXCLUSIONS

This warranty excludes ancillary fittings such as contents measuring gauges or mechanical pumps. Further warranty information on ancillary fittings and pumps is provided within the manual.

To make a warranty claim, you will need your serial number, proof of purchase, and a photo of the product clearly showing the issue.

Submit a claim at polymaster.com.au/warranty.



Questions? Contact Polymaster

1800 062 064
polymaster.com.au
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