PETRO Industrial will be the supplier of choice to commercial end users of industrial and petrochemical equipment and services.

Shareholder value will be delivered through:

- the provision of an innovative array of product and service offerings to our chosen market niches;
- the development and maintenance of strong, open, ethical relationships with our stakeholders including customers, suppliers and service providers;
- a quicker, more responsive, more proactive approach than our competitors.

OOZE ENTHUSIASM
We have fire in our belly. We will infect our customers, our suppliers, our staff and our stakeholders with our positive, fire in the belly, attitude to our commercial interactions.

ETHICS
It’s about respect. We will always do the right thing. We respect ourselves, our suppliers, our stakeholders, our employees and yes, our customers. We will do the right thing, and in return we expect the right thing to be done by us.

MAKE A BUCK
We are not in it for the good of our health. We are here to provide an acceptable return to all of our stakeholders for their support and involvement in our business.

MAKE IT HAPPEN
Appoint staff who create an environment of accountability and continuous improvement. We have drive and do what we say we are going to do.

ONE STEP AHEAD
Ensuring we are a competitive and innovative company. We are adaptable, entrepreneurial and innovative and ultimately bottom line focused.

THANKS, BUT NO THANKS
We will say no to customers, suppliers, employees and stakeholders who do not fit the culture of our business. We don’t want to be everything to everyone. We want to be the best to those who want to be the best with us.

RIGHT + SAFE
We will strive to get the job done Right first time, every time but we will not compromise the Safety of our staff, our suppliers or our customers in doing so.
You are guaranteed quality when you purchase from PETRO Industrial

As an industry leader in the design, manufacture, assembly, supply and installation of Commercial Petroleum Equipment, PETRO Industrial has again raised the bar. We are the first amongst our peers to firstly invest in our systems and processes and secondly obtain independent, third party certification to the internationally recognised Quality Standard – ISO9001:2008.

We are proud to announce that PETRO Industrial has passed all of the audits and scrutiny applied by SAI Global leading to the certification of our Quality Systems and Processes to ISO9001:2008.

What does this mean to you?

First Time Every Time
We recognise that you want us to get it right first time, every time. The only way we will achieve this is to document how we do stuff and ensure that we stick to these systems and processes developed.

We are not a Fly-by-Nighter
The barriers to entry in our industry are coming down. Anyone can tramp up to China, engage a factory, and import equipment into the market. Would you rather deal with a fly-by-night company who probably won’t be there to support the product into the future, or a strong, well managed company such as PETRO who constantly invests in our people, our systems and our processes? If it was my money I know who I would deal with.

We Learn from Mistakes
If we make a mistake we have a formal system in place to record this, and a process to ensure we don’t make the same mistake twice. We will actively seek feedback from you and we will strive to further improve ourselves so that the customer experience with PETRO just keeps on getting better.

They will be Back
This is only the beginning of the process. We are in the process of training internal auditors to check, double-check and indeed triple-check our systems and processes. In addition, SAI Global will be back to independently audit us regularly to ensure we are sticking to the rules!!

Don’t be tempted by the ‘cheap tank’. Compare us with the others. We have a strong balance sheet, we pay our bills on time, every time, we are run by the guys who originally kicked off these self bunded tanks in the Australian market and we invest strongly in our people, our systems and our processes. We will be there to support whatever we sell you - long term – will they be?
The secret of baking a good chocolate cake is to follow the recipe. Whilst you can embellish a recipe with your own small improvements, if you leave out any key ingredients the chocolate cake just won’t taste right.

Likewise the successful storage and dispensing of Fuel, Lubricants, Waste Oil and AdBlue® (Fluid) is all about ensuring you follow the recipe and that you use all of the key ingredients (ok let’s call them components). OK so what’s the recipe?

TANKS
From the humble 20L Drum up to a 1100L PETRO Double Wall T Series Tank right through to a 110 000L PETRO PT Series Self Bunded Tank, the base of your recipe is having the right tank to store your Fluid.

Size does matter. Forecast your usage and specify a tank that suits your operation. Too much storage can result in the contamination of your Fluid through condensation or indeed shelf life. Not enough storage puts too much strain on your supply chain leading to the risk of running out of Fluid. What is the risk / cost to your operation if you run out of Fluid?

Your tank is allergic to Air. The biggest source of contamination is the air entering your tank. For every litre of Fluid dispensed, a litre of Air enters the Tank. That air is contaminated with dust and holds moisture (humidity). The dust will carry through to your vehicle as particulate contamination and will result in increased wear to your engine. In turn the moisture in the air will condensate resulting in the water contamination of your Fluid.

Use a TRAP Filter - The cheapest insurance against contamination is to use a Donaldson TRAP Air Filter on the Air Vent of your Tank. TRAP Filters are available in a wide range of capacities to suit Drums, Intermediate Bulk Containers, PETRO Double Wall T Series Tanks and Cubes, and PETRO Double Wall Containerised Tanks.

STRAINERS
Known as a ‘rock catcher’, a strainer will protect your pump from the ingress of larger foreign particles drawn through your dispensing system. Strainers come in all sorts of shapes and sizes but a common feature is that the mesh can be removed and cleaned as a maintenance item over time. Ensure that you size the strainer to suit the end of nozzle flow rate required. ALWAYS ensure that you fit a strainer before any pump. A Strainer is cheap – a Pump is expensive.

PUMPS
The heart of your dispensing system. Like the human body, the life of the dispensing system is dependent upon the pump. Your application and importantly end of nozzle flow rate requirement will determine the size and type of pump used. Each Fluid dispensed brings its own characteristics that need to be considered. Gasoline (Petrol) needs a flameproof motor, Lubricants have a pressure and flow rate trade off, Waste Oil can result in potentially damaging foreign objects being pumped, and AdBlue® crystallises when the line is allowed to dry out. You do get what you pay for with most things in life, make sure you invest in a good quality pump, your dispensing system is depending upon it.
FILTERS
It is really important, for the life of your engine, that your dispensing system removes particulates and water from your fluid. Single pass filtration is the most efficient filtration principle. The Beta rating of your chosen filter will determine the effectiveness of the filters put into place.

I Can’t Handle the Pressure. An upstream and downstream pressure gauge (or indeed a differential pressure gauge) will provide operators with the visual tool they need to determine filter life. If the differential pressure is more than 50psi – time to change the element out.

METERS
If the Pump is the heart of your dispensing system the Meter is the eyes. The meter will give you an indication of fluid dispensed per transaction and a running total of fluids dispensed overall. Meters also come in all shapes, in all sizes, at many different price points, and with different levels of accuracy. Register options include None (Pulse Meter), Mechanical or Electronic. Meter design generally falls into two categories, Own Use and Custody Transfer Approved.

HOSE
This is the flexible reticulation enabler that transfers your fluid from the tank and dispensing components through to your vehicle. The poor old hose has a hard life. It is often abused and neglected. Choose a quality hose with impregnated wire helix. A quality hose will generally be rated for both suction and discharge. Ensure that the hose is kept off the ground by specifying a Hose Mast or Hose Reel.

NOZZLES
Get the Nozzle right and your operators will be happy forever more. The nozzle is the key interface in you dispensing system to your equipment. Simple low flow dispensing systems only require a manual shut off design. Higher flow and more critical applications will require an automatic shut off design. In turn fast flow systems will require dry break quick fill nozzle options.

The Drive Off - a key risk in your dispensing system is your operator driving off with the nozzle still fitted to the refueling point of your vehicle. A breakaway fitting will protect your dispensing system from any damage caused by a drive off. Options include a one time use breakaway and re-connectable breakaway fittings.

FLUIDS MANAGEMENT SYSTEMS
The Fluids Management System (FMS) is the brain of your dispensing system. The FMS will record the date / time and volume of fluids dispensed, which operator and which vehicle to the fluid. The FMS takes a pulse from the meter in the system and controls the power to the pump. If the transaction is not authorised by the FMS the system cannot dispense fluid. The use of a FMS provides security to the dispensing system only allowing those authorised to dispense fluids.

TANK GAUGING
There are many and various ways to provide visibility of the contents of your tank. The simplest method is the use of a calibrated dipstick. If you require a quick visual indication of the tank contents, a hydrostatic clock gauge or Piusi OCIO Tank Gauge would be good options to consider. More complex systems such as the Franklin Colibri Automatic Tank Gauge (ATG) provide additional reporting and alarm features, and facilitate remote contents management using various communication methods.

SPILL CONTAINMENT
Historically most of the pollution of refueling and lubrication facilities have not occurred due to major catastrophic spills. Constant small spills, that are not contained nor cleaned up at the refueling point are the problem. It is important that you provide for the containment of spills when refueling and the means to clean these up immediately as part of your site housekeeping procedures.
<table>
<thead>
<tr>
<th>CONTENTS</th>
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<td>Liquids Key</td>
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<td>Tanks</td>
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<td>Trailers</td>
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<td>Service Bodies</td>
<td>35</td>
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<td>Dangerous Goods Stores</td>
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<td>Bunds</td>
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<td>Diesel Exhaust Fluid (DEF) Equipment</td>
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<td>Dispensers and Bowsers</td>
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<td>Electronic Fluids Management</td>
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<td>Nozzles</td>
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<td>Strainers</td>
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<td>Key Features</td>
<td>PETRO LT Series</td>
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<td>------------------------------</td>
<td>-----------------</td>
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<tr>
<td><strong>Country of Manufacture</strong></td>
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<td><strong>Size Range</strong></td>
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</tr>
<tr>
<td><strong>Wall Thickness</strong></td>
<td>Both Walls 6mm (2 x 6mm)</td>
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<tr>
<td><strong>Steel Specifications</strong></td>
<td>Corten 350mpa</td>
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<tr>
<td><strong>Roof Design</strong></td>
<td>Rounded Profile</td>
</tr>
<tr>
<td><strong>Floor Design</strong></td>
<td>Full Under Tank Visibility</td>
</tr>
<tr>
<td><strong>Paint Specification</strong></td>
<td>Paint Colour RAL9003 Signal White</td>
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<tr>
<td><strong>Fill Line</strong></td>
<td>80nb Sch40 Flanged ANSI 150# c/w Male Camlock Fitting, Dust Cap, Fire Safe Full Bore Ball Valve, Non Return Valve</td>
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<td><strong>Overfill Protection</strong></td>
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<tr>
<td><strong>Suction Line</strong></td>
<td>80nb Sch40 Flanged ANSI 150# terminated with Full Bore Ball Valve</td>
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<tr>
<td><strong>Anti Syphon</strong></td>
<td>PETRO 80nb Anti Syphon Valve</td>
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<tr>
<td><strong>Interstitial Space</strong></td>
<td>PETRO 80nb Emergency Bund Vent</td>
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<tr>
<td><strong>Bunded Pump Bay</strong></td>
<td>Yes, 1/2 Height with Lockable Container Doors</td>
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<td><strong>Warranty</strong></td>
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<tr>
<td><strong>Water Removal</strong></td>
<td>Rounded Floor Profile with Natural low point. Tank fitted with 25mm Suction Line for Water Removal</td>
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<tr>
<td><strong>Interstitial Space Monitor</strong></td>
<td>Dipstick</td>
</tr>
<tr>
<td><strong>Manway Access</strong></td>
<td>2 x 600mm each fitted with internal ladder assembly</td>
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</table>
SUPPLIED WITH INTERSTELLAR EMERGENCY RELIEF VENT THAT WILL RELIEVE THE GAP BETWEEN THE TWO TANKS IN THE EVENT OF A FIRE

Rounded roof profile that will not pool water / snow or sand

Supplied with all required statutory safety decals for your region of operation

Unique rounded rectangular tank profile maximises the storage capacity of the tank and provides the strength of a cylindrical design

Fold out AS1657 designed and approved access ladder

CSC plated as 10ft / 20ft / 40ft / 48ft Standard Container

Paint Colour RAL 9003 Signal White / Tanks are sandblasted to SA2 Standard, Hempel Marine Paint 3 Stage process, Primer Hempadur 1530, 2nd Coat Hempadur Hi-Build 4520, Final Coat Hempathane Enamal 55100 Finished dry film thickness no less than 180 um

Rounded roof profile that will not pool water / snow or sand

2 x 600mm manways with integrated tank access ladder assembly

Supplied with all required statutory safety decals for your region of operation

Unique rounded rectangular tank profile that will relieve the gap between the two tanks in the event of a fire

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Full under tank visibility allows for regular visual inspect of the tank base and prevents the base rusting by providing for unrestricted air flow under the tank

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Product Range

<table>
<thead>
<tr>
<th>Code</th>
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<th>Safe Fill Level</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
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<tr>
<td>LT65</td>
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<td>2,418</td>
<td>2,896</td>
<td>14,500</td>
<td>4FL High Cube 4FT</td>
<td>No</td>
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</table>

Paint Colour RAL 9003 Signal White / Tanks are sandblasted to SA2 Standard, Hempel Marine Paint 3 Stage process, Primer Hempadur 1530, 2nd Coat Hempadur Hi-Build 4520, Final Coat Hempathane Enamal 55100 Finished dry film thickness no less than 180 um

Full under tank visibility allows for regular visual inspect of the tank base and prevents the base rusting by providing for unrestricted air flow under the tank

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TANKS

PETRO T SERIES DOUBLE WALL CONTAINERISED TANKS

- Multiple compartment tanks are available in all footprints to allow the storage of multiple grades / types of liquids such as various grades of lubricants or different fuels.
- Suitable for storage and dispensing of diesel, lubricants, gasoline (petrol) and waste oil.
- Manufactured from CorTen steel 350mpa with a wall thickness of 6mm (2 x 6mm).
- Designed and approved to UL142, ULC-S601, BS799, AS1940, AS1692, AS1657.
- Rectangular tank profile maximises the storage footprint of the tank.
- Fill and Suction Line supplied with 80mm (3") Suction Line including Sch 40 Pipe, ANSI 150# Flanges terminating with 80mm (3") wall thickness.
- Battery Operated (12V) Overfill Alarm.
- Made from CorTen steel 350mpa with a wall thickness of 6mm (2 x 6mm).
- Suitable for the storage and dispensing of diesel, lubricants, gasoline (petrol) and kerosene.
- Paint Colour RAL9003.
- Intestinal Space Dip Point supplied with aluminium dipstick.
- Intestinal Space Dip Point supplied with aluminium dipstick.
- Top mounted lockable spill containment box with tank fill / dipstick point.
- Dedicated Fill Point with Chrome Plated Ergonomic Cap and vented fill tube through to the bottom of the tank.
- Designed for stationary (static) storage. Not designed to be moved with liquid in the tank.
- Designed to be nozzle filled only.
- Available in a range of sizes including 1100L, 2250L, 3300L, 4500L and 5500L.
- Suitable for future tank maintenance.
- Numerous additional DN50 (1") Sockets for mounting of monitoring and dispensing equipment.
- Self Bunded (double wall) design.
- Self Bunded (double wall) design.
- Top mounted lockable spill containment box with tank fill / dipstick point.
- Dedicated Fill Point with Chrome Plated Ergonomic Cap and vented fill tube through to the bottom of the tank.
- Designed for stationary (static) storage. Not designed to be moved with liquid in the tank.
- Designed to be nozzle filled only.
- Available in a range of sizes including 1100L, 2250L, 3300L, 4500L and 5500L.

PETRO T SERIES RANGE OF SMALL DOUBLE WALL TANKS

- Design
- Made from CorTen steel 350mpa with a wall thickness of 6mm (2 x 6mm).
- Suitable for the storage and dispensing of diesel, lubricants, gasoline (petrol) and waste oil.
- Manufactured from CorTen steel 350mpa with a wall thickness of 6mm (2 x 6mm).
- Designed and approved to UL142, ULC-S601, BS799, AS1940, AS1692, AS1657.
- Rectangular tank profile maximises the storage footprint of the tank.
- Fill and Suction Line supplied with 80mm (3") Suction Line including Sch 40 Pipe, ANSI 150# Flanges terminating with 80mm (3") wall thickness.
- Battery Operated (12V) Overfill Alarm.
- Made from CorTen steel 350mpa with a wall thickness of 6mm (2 x 6mm).
- Suitable for the storage and dispensing of diesel, lubricants, gasoline (petrol) and kerosene.
- Paint Colour RAL9003.
- Intestinal Space Dip Point supplied with aluminium dipstick.
- Intestinal Space Dip Point supplied with aluminium dipstick.
- Top mounted lockable spill containment box with tank fill / dipstick point.
- Dedicated Fill Point with Chrome Plated Ergonomic Cap and vented fill tube through to the bottom of the tank.
- Designed for stationary (static) storage. Not designed to be moved with liquid in the tank.
- Designed to be nozzle filled only.
- Available in a range of sizes including 1100L, 2250L, 3300L, 4500L and 5500L.
- Suitable for future tank maintenance.
- Numerous additional DN50 (1") Sockets for mounting of monitoring and dispensing equipment.
- Self Bunded (double wall) design.
- Self Bunded (double wall) design.
- Top mounted lockable spill containment box with tank fill / dipstick point.
- Dedicated Fill Point with Chrome Plated Ergonomic Cap and vented fill tube through to the bottom of the tank.
- Designed for stationary (static) storage. Not designed to be moved with liquid in the tank.
- Designed to be nozzle filled only.
- Available in a range of sizes including 1100L, 2250L, 3300L, 4500L and 5500L.

Code | Capacity | Safe Fill Level | Length (mm) | Width (mm) | Height (mm) | Weight (kg)
---|---|---|---|---|---|---
T1.1 | 1100L | 1000L | 2991 | 2438 | 2996 | 4748
T2.25 | 2250L | 2000L | 2438 | 2996 | 7815
T3.3 | 3300L | 3000L | 2438 | 2996 | 7815
T4.5 | 4500L | 4000L | 2438 | 2996 | 14100
T5.5 | 5500L | 5000L | 2438 | 2996 | 17100

Design
- Integrated Bunded Pump Bay Housing featuring removable side panels to allow for simple multiple tank connection for tank farm applications. Options available for Full Tank design with removable / modular bunded pump bay housing.
- Integrated Ladder / Platform designed to AS1657. Platform designed to allow for ladder connection to either side of the tank providing flexibility for site positioning and operation. Infill pieces can be added in multiple tank farm applications.
- Top mounted lockable spill containment box with tank fill / dipstick point.
- Dedicated Fill Point with Chrome Plated Ergonomic Cap and vented fill tube through to the bottom of the tank.
- Designed for stationary (static) storage. Not designed to be moved with liquid in the tank.
- Designed to be nozzle filled only.
- Available in a range of sizes including 1100L, 2250L, 3300L, 4500L and 5500L.

TANKS

TANKS

TANKS

TANKS

TANKS

TANKS
PETRO CUBE 110% SELF BUNDED, BAFFLED CUBES

Innovative tank in tank design.
The inner tank can be removed from the outer tank for maintenance and cleaning.

Available in a large range of sizes

<table>
<thead>
<tr>
<th>Size</th>
<th>Safe Fill Level (L)</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Empty Weight (kg)</th>
<th>Full Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>450L</td>
<td>420L</td>
<td>1300</td>
<td>1000</td>
<td>750</td>
<td>380</td>
<td>763</td>
</tr>
<tr>
<td>950L</td>
<td>860L</td>
<td>1670</td>
<td>1050</td>
<td>1235</td>
<td>680</td>
<td>1488</td>
</tr>
<tr>
<td>2000L</td>
<td>1800L</td>
<td>2550</td>
<td>1130</td>
<td>1235</td>
<td>980</td>
<td>2680</td>
</tr>
<tr>
<td>3000L</td>
<td>2700L</td>
<td>2550</td>
<td>1650</td>
<td>1235</td>
<td>1150</td>
<td>3700</td>
</tr>
<tr>
<td>4500L</td>
<td>4100L</td>
<td>3000</td>
<td>2000</td>
<td>1235</td>
<td>1650</td>
<td>5175</td>
</tr>
<tr>
<td>6300L</td>
<td>5950L</td>
<td>3560</td>
<td>2166</td>
<td>1235</td>
<td>2450</td>
<td>7205</td>
</tr>
<tr>
<td>6500L</td>
<td>5950L</td>
<td>3000</td>
<td>2400</td>
<td>1300</td>
<td>2500</td>
<td>7920</td>
</tr>
<tr>
<td>8000L</td>
<td>7700L</td>
<td>4600</td>
<td>2246</td>
<td>1235</td>
<td>2880</td>
<td>9500</td>
</tr>
<tr>
<td>10000L</td>
<td>9000L</td>
<td>5750</td>
<td>2108</td>
<td>1210</td>
<td>3500</td>
<td>11500</td>
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<tr>
<td>13000L</td>
<td>12000L</td>
<td>6000</td>
<td>2400</td>
<td>1300</td>
<td>4500</td>
<td>15400</td>
</tr>
</tbody>
</table>
### PETRO PC SERIES 110% SELF BUNDED, BAFFLED CUBES

- All pumps, connections and hoses are housed and can be locked within the bund area, even in use!
- The rear mounted hatch features 2 x 25mm, 1 x 40mm and 1 x 50mm spare female socket all provided for the mounting of accessories to the tank.
- Removable lid for ease of maintenance.
- Fully lockable lid on gas struts with vandal proof lock housing.
- Innovative tank in tank design. The inner tank can be removed from the outer tank for maintenance and cleaning.
- Approved to UL142 / ULC-S601 / ULC-S653, AS1692 / AS1940, Static Storage and UN31A/Y for Transport with Liquid.

### CUSTOMISED GENERATOR BASE TANKS

- We can design and manufacture for you a fully customised self bunded (double wall) generator base tank.
- Choose from one of our tried and proven existing designs or let us design up a self bunded (double wall) generator base tank to suit your requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Safe Fill Level</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Empty Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC1000</td>
<td>600L</td>
<td>54%</td>
<td>1600</td>
<td>1054</td>
<td>1288</td>
<td>135</td>
</tr>
<tr>
<td>PC1100</td>
<td>1100L</td>
<td>100%</td>
<td>1680</td>
<td>1094</td>
<td>1500</td>
<td>678</td>
</tr>
<tr>
<td>PC2000</td>
<td>2000L</td>
<td>1800L</td>
<td>2520</td>
<td>1546</td>
<td>2000</td>
<td>888</td>
</tr>
<tr>
<td>PC3000</td>
<td>3000L</td>
<td>2700L</td>
<td>2548</td>
<td>1569</td>
<td>2500</td>
<td>1000</td>
</tr>
<tr>
<td>PC4000</td>
<td>4000L</td>
<td>6000L</td>
<td>2552</td>
<td>1569</td>
<td>2500</td>
<td>1100</td>
</tr>
<tr>
<td>PC5000</td>
<td>5000L</td>
<td>8000L</td>
<td>2552</td>
<td>2500</td>
<td>2500</td>
<td>1200</td>
</tr>
<tr>
<td>PC6000</td>
<td>6000L</td>
<td>10000L</td>
<td>2552</td>
<td>2500</td>
<td>2500</td>
<td>1300</td>
</tr>
</tbody>
</table>

Dimensions and capacities are nominal only. Alternative capacities available on request.

- Available in Dual Wall or 110% Self Bunded Tank in Tank configuration.
- Our designs include an internally reinforced baffle system to allow the tanks be transported with fuel and to provide a stronger, reinforced structure for housing the generator.
- Our design has fewer exposed seams and welds for increased corrosion resistance.
- PETRO Self Bunded (Double / Dual Wall) Generator Sub-Base Tanks are UL and ULC Listed as Secondary Containment Generator Base Tanks.
- The inner and outer tanks are pressurised at 3 psi (21kpa) and leak checked per UL, and ULC testing procedures to ensure the integrity of weld seams.
Imagine being able to fix any size generator set, to the top of a pre fabricated base tank, in any location, with the ability to retro fit additional requirements, as per your customer specifications. The PETRO Self Bunded Universal Generator Base Tank allows you to do just that. It’s a market changer. The innovative PETRO Self Bunded Universal Generator Tank range provides unparalleled flexibility, while extending critical run time of your power generation equipment.

A truly, one size fits all base tank, that reduces lead times from the factory to the field. Covering a range of generator sets from 26 – 200 kVA in the 1000 litre range, and 200-400 kVA in the 2000 litre range, the PETRO Self Bunded Universal Generator Base Tank combines the ability to provide fast, cost effective in house custom solutions, while still using an Australian standardised product that you can trust.

Transportability
- Certified lifting provisions;
- Multiple lifting locations;
- Heavy duty bump rails;
- Easily mounted to skid base/fork pockets.

Security and Safety
- Secure lockable 15 litre spill box;
- Provision for bund alarm;
- Pressure testing of secondary tank;
- Provisions for overfill alarm/ protection fit up;
- Vandal resistant tank design;
- Extremely high level of fuel security;
- NATA Tested machinery mounting pull through strength of 7.7kn each mounting point;
- Secondary safety straps insures secure mounting;
- Calibrated tank dip stick;
- Simple to follow fill procedure.

Robust and Durable Construction
- Tank manufacture to AS1692 and AS1940;
- Strong light weight composite material for machinery anchor foundation;
- Internal tank baffles weld top and bottom;
- Heavy duty pressed plate channels;
- True bunded tank with secondary skin lid;
- 360 degree electrical stub up location;
- Easy to use, machinery fixing procedure.

<table>
<thead>
<tr>
<th>Model</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Weight (kgs)</th>
<th>Fuel Capacity (Litres)</th>
<th>Genset Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-1000</td>
<td>2450</td>
<td>1295</td>
<td>590</td>
<td>810</td>
<td>1000</td>
<td>0-200 kVA</td>
</tr>
<tr>
<td>UN-2000</td>
<td>3650</td>
<td>1595</td>
<td>590</td>
<td>1550</td>
<td>2000</td>
<td>200-400 kVA</td>
</tr>
</tbody>
</table>

Halves the separation distance requirements as stipulated by AS1940-2004

Innovative range of insulated double wall tanks designed to hold the tank contents for a minimum 4 hours period in a fire engulfment situation

Up to Four-hour fire resistance using lightweight concrete – please note the UL 2085 certification is based on a 2 hour fire resistance test. We have tested our range of Fire Rated tanks past 4 hours of fire resistance.

We can supply and fit a NMI approved bowser for custody transfer applications – examples include Hire Company Yards / Car Hire Company Refuelling Operations

True 360° “pressure testable” secondary containment

Vehicle impact protection

CARB Certified for Stage I and II Vapor Recovery

UL 2085 (Certificate # MH15135) listed for insulated, protected secondary containment

Range of sizes from 500L to 110,000L

Suitable for the safe storage and dispensing of Gasoline (Petrol), Aviation Fuels, Kerosene, Diesel and Lubricants

Built-in leak detection tube

Next generation double wall tank

30-Year warranty

Ballistic Protection

Approved for bulk storage of fuels both indoors and outdoors

Supplied with PI4000 Flameproof Overfill Alarm

Range of sizes from 500L to 110,000L

Available with multiple compartments - a common configuration is dual Diesel / Gasoline (Petrol) storage

Designed and approved to AS1940 / AS1692 / UL142 / UL2085, ULC Standards (Canada)
It doesn’t matter what the nature of the project is, you need fuel and lubricants (herein referred to as hydrocarbons) to run your project.

**FLEXIBLE...** There are peaks and troughs during the project timetable that sees spikes in demand. We understand that you need a flexible solution to your site hydrocarbons storage and dispensing needs.

**PRACTICAL...** You need a rapidly deployable, scalable, environmentally compliant and practical hydrocarbons facility to support the job.

**FINANCE...** Project finances may dictate that hiring the facility may be more financially viable. Perhaps a buyback offer on the facility helps with the split of assets once the project draws to a close or the joint venture ceases. PETRO Industrial offers a range of innovative finance solutions to support your specific project needs.

**SCALABLE...** Perhaps the facility needs to be scaled down to meet the permanent needs of the site moving forward. PETRO Tank Farms can be easily scaled up or down to meet the needs of your project hydrocarbons off take.

**MODULAR...** PETRO Industrial have developed a modular, plug and play hydrocarbons solution to support your project site.

**OPTIONS...** We can offer a range of larger centralised options and indeed a network of smaller decentralised solutions tailored to the needs of your project.

**LITTLE INFRASTRUCTURE...** There is no need to invest in expensive permanent infrastructure to support our equipment. Whilst always nice to have, our equipment does not require expensive concrete footings and associated infrastructure. All we need you to provide is a suitably compacted, well drained, level site. PETRO Tank Farms are designed to be deployed in a range of conditions.

**RAPID DEPLOYMENT...** PETRO Tank Farms are quick to deploy. We hold tanks in stock throughout our global operations. We can kick off your project with equipment within literally a few days, this equipment can then be scaled up to meet the needs of your project as it gears up to full construction. Traditional Tank Farms can take up to 6 months to build. Don’t wait around, specify a PETRO Tank Farm.
### PETRO DIESEL POLY TANK RANGE

<table>
<thead>
<tr>
<th>Code</th>
<th>Capacity Litres</th>
<th>Weight Empty (kg)</th>
<th>Dimensions (L x W x H)</th>
<th>Flow Rate (lpm)</th>
<th>Hose Ball Baffles</th>
<th>Optional Additions</th>
</tr>
</thead>
<tbody>
<tr>
<td>DUL0100LD040V1</td>
<td>100L</td>
<td>28kg</td>
<td>800mm x 680mm x 465mm H</td>
<td>40lpm</td>
<td>4m x 1/2&quot;</td>
<td>✓</td>
</tr>
<tr>
<td>DUL0200ALD040V1</td>
<td>200L</td>
<td>34kg</td>
<td>860mm x 680mm x 465mm H</td>
<td>40lpm</td>
<td>4m x 1/2&quot;</td>
<td>Optional</td>
</tr>
<tr>
<td>DUL0300LD040V1</td>
<td>300L</td>
<td>40kg</td>
<td>1150mm x 800mm x 710mm H</td>
<td>40lpm</td>
<td>4m x 1/2&quot;</td>
<td>Optional</td>
</tr>
<tr>
<td>DUL0400LF045V1</td>
<td>400L</td>
<td>45kg</td>
<td>1150mm x 800mm x 812mm H</td>
<td>45lpm</td>
<td>6m x 1&quot;</td>
<td>✓</td>
</tr>
<tr>
<td>DUL0450LF045V1</td>
<td>450L</td>
<td>49kg</td>
<td>1150mm x 800mm x 812mm H</td>
<td>45lpm</td>
<td>6m x 1&quot;</td>
<td>✓</td>
</tr>
<tr>
<td>DUL0600LFB045V1</td>
<td>600L</td>
<td>75kg</td>
<td>1700mm x 800mm x 740mm H</td>
<td>60lpm</td>
<td>8m x 1&quot;</td>
<td>✓</td>
</tr>
<tr>
<td>DUL0800LFB060V1</td>
<td>800L</td>
<td>98kg</td>
<td>1700mm x 1000mm x 890mm H</td>
<td>60lpm</td>
<td>8m x 1&quot;</td>
<td>✓</td>
</tr>
<tr>
<td>DUL1000LFB060V1</td>
<td>1000L</td>
<td>103kg</td>
<td>1700mm x 1000mm x 975mm H</td>
<td>60lpm</td>
<td>8m x 1&quot;</td>
<td>✓</td>
</tr>
<tr>
<td>DUL1200LFB060V1</td>
<td>1200L</td>
<td>115kg</td>
<td>1700mm x 1000mm x 975mm H</td>
<td>60lpm</td>
<td>8m x 1&quot;</td>
<td>✓</td>
</tr>
</tbody>
</table>

- Lockable fully-enclosed pump compartment for protection and security
- 3 stage security locking system
- Unique, slim compact design with in-built carry handles for ‘carry anywhere’ convenience
- 19mm drain bung
- Supplied with 4m Battery Cable, Clamps and Earth Strap
- Supplied with Hose and Auto Shut Off Nozzle
- You might also need: (Optional Additions)
  - METER PIUSI K33 000550000 3 Digit Mechanical 25mm FF 20-120lpm
  - METER PIUSI K44 000560000 4 Digit Mechanical 25mm FF 20-120lpm
  - METER PIUSI K24 F0040700A Electronic 25mm FF 100lpm

### PETRO POLY DIESEL RANGER TRAILERS

Available in: 600, 800, 1000, 1200, 1500, 2000 and 3000 litre sizes.

- Pump kit includes: Italian 45lpm pump, 6m of delivery hose and auto shut-off nozzle
- Lid with splash resistant breather, 2 filter tube and earth strap
- 15" wheels with Landcruiser hub pattern
- Single sprung axle (telescopic axle optional)
- Road trailers: Electric brakes (200L & larger); Hydraulic brakes (600L - 1000L)
- 50mm tow hitch (Ring hitch optional) (70mm on 2000L and above)
- Hot dip galvanised chassis
- Jockey wheel (Heavy duty jockey wheel optional)

### PETRO POLY DIESEL 1000L MARSHAL TRAILER

- Pump kit fitted in secure toolbox for protection
- Pump kit includes: Italian 45lpm pump, 6m of delivery hose and auto shut-off nozzle
- Specially Formulated Diesel Grade Polyethylene tank
- 50mm tow hitch
- Hot dip galvanised steel frame
- Jockey wheel
- Road trailers: Hydraulic brakes
- 14" wheels with Ford hub pattern
- All terrain road tyres

### You might also need: (Optional Additions)

- METER PIUSI K33 000550000 3 Digit Mechanical 25mm FF 20-120lpm
- METER PIUSI K44 000560000 4 Digit Mechanical 25mm FF 20-120lpm
- METER PIUSI K24 F0040700A Electronic 25mm FF 100lpm

Manufactured from specifically formulated diesel grade polyethylene that meets International Regulation ECE R34.01 requirements.
PETRO POLY DIESEL GENIUS TRAILERS

The convenience of mobile refueling in an easy-to-tow, road registerable trailer built to ADR standards.

- Lightweight and highly maneuverable;
- High quality pump kit included – choose from 45, 60 and 80 lpm flow rates;
- “Tough Enough” heavy duty steel chassis, hot dip galvanised for maximum protection for durability;
- 600, 800, 1000 and 1200L sizes.

PETRO POLY DIESEL 1100L PUMA TRAILER

- Built to high level ADR requirements;
- “Tough Enough” heavy duty steel chassis featuring hot dip galvanising for maximum protection;
- Specially strengthened steel mudguards with hand rolled edge for maximum wheel protection;
- Greatly improved puncture resistance with our 6 ply radial tyres, which also helps with heavy load capability;
- Size: 3885mm L, 1910mm W, 1565mm H
- Available in:
  - ON FARM - DRLX1100L
  - ROAD REGISTERABLE - DRLQ1100L c/w lights & hydraulic override brakes

Pump kit includes:
- Italian pump;
- 6m of delivery hose;
- Auto shut-off nozzle.

<table>
<thead>
<tr>
<th>Litres</th>
<th>Code</th>
<th>Select Pump</th>
<th>Model and Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>600L</td>
<td>DGQ600LF045V1</td>
<td>45L/min</td>
<td>STANDARD (1700L X 1000(W) X 740(H))</td>
</tr>
<tr>
<td>800L</td>
<td>DGQ800LF045V1</td>
<td>45L/min</td>
<td>STANDARD (1700L X 1000(W) X 860(H))</td>
</tr>
<tr>
<td>1000L</td>
<td>DGQ1000LF045V1</td>
<td>45L/min</td>
<td>STANDARD (1700L X 1000(W) X 1025(H))</td>
</tr>
<tr>
<td>1200L</td>
<td>DGQ1200LF045V1</td>
<td>45L/min</td>
<td>STANDARD (1700L X 1000(W) X 1190(H))</td>
</tr>
</tbody>
</table>

Supplied With
- 2” filler tube & pad lockable cap with breather and earth strap
- Integrated Toolbox with Heavy-duty lockable hinged lid
- 15” wheels with Landcruiser hub pattern
- Hot dip galvanised steel frame
- 15” Landcruiser wheels with Landcruiser hub pattern for maximum ground clearance and excellent manoeuvrability
- Excellent ground clearance for use in rough terrain
- 6 ply radial tyres for puncture resistance
- Lockable lid protects pump compartment
- UV stabilised, diesel grade poly to international regulations

Built to high level ADR requirements;
“Tough Enough” heavy duty steel chassis featuring hot dip galvanising for maximum protection;
Specially strengthened steel mudguards with hand rolled edge for maximum wheel protection;
Greatly improved puncture resistance with our 6 ply radial tyres, which also helps with heavy load capability;
Size: 3885mm L, 1910mm W, 1565mm H
Available in:
- ON FARM - DRPX1100L
- ROAD REGISTERABLE - DRPQ1100L c/w lights & hydraulic override brakes

Choose from 45, 60 & 80L/min Pump kits
Supplied with 70L flush tank and 10L fresh water tank
Fuel pump kit with 6m delivery hose and auto shut-off nozzle mounted in protective toolbox

The 1200L Genius in action

10 litre fresh water tank
70 litre flush tank
SELF BUNDED CUBE STYLE TRAILERS

- Available as 950L | 1250L | 1500L | 2000L | 3000L | 4500L;
- Fill / dip point located at rear of the unit. Galvanised, grated step for access to fill / dip point;
- Tank module UN approved as IBC - roll over spill protection provided (pressure vacuum vent). Primary tank / secondary tank design. Secondary tank 110% capacity of primary tank;
- Trailer supplied unregistered - local registration available as an optional extra;
- Choice of pump mount locations;
- Tank able to be removed for maintenance;
- Tank supplied with removable lid for access to primary tank;
- Primary tank fully baffled;
- Manway access to primary tank;
- Primary tank contents level indicator supplied.

Features:
- Options for tandem or triple axle trailer, or turntable (dog) trailer for larger capacity units;
- Heavy duty off road design;
- Full box section chassis;
- Draw bar 1 650 long (3 mm);
- Draw bar welded to the suspension;
- Checker plate mudguards with front and rear steps;
- RIDE MASTER® suspension;
- 6 stud landcruiser hubs;
- New tyres with sunraysia rims;
- Spare wheel and wheel bracket;
- Quick release coupling - options for TREG or pintle ring couplings;
- Swing away jockey wheel 10”;
- LED strobe light - site identification light - able to raise and lower as required. Will turn on when vehicle headlights are turned on;
- Rear drop legs;
- 12/24 volt LED lights;
- 4.5kg fire extinguisher with HD mounting;
- 950L c/w mechanical override brakes / 2000L c/w electric brakes - option for hydraulic brakes.

TRAILERS

SELF BUNDED 1250L AND 2000L LOW PROFILE TRAILERS

Designed and produced in Australia, this innovative self bunded trailer range meets the requirements of the Mining, Civil Construction, Hire Industry and General Industrial Markets.

Gross weight: 1,250L - less than 2 tonne and 2,000L - less than 3 tonne.

Low profile, aerodynamic style. Low centre of gravity.

Meets requirements for towing of fuel in accordance with Australia Dangerous Goods Transport regulations.

For hire company applications or stationary equipment connection requirements (such as generators, lighting towers, pumps etc) we provide 2 x suction connection (with foot valves) points and 2 x return connection points located at the rear of the trailer for simple / quick connection to site equipment.

Gas strut lockable lid for access to tank fueling area. Tank fueling area features mechanical level gauge, numerous spare ports for connection of support equipment, anti static fill tube and weatherproof recessed housing.

1250L features mechanical override brakes / 2000L features an electric braking system / option for hydraulic brakes for both the 1250L and 2000L Trailer Designs.
PETRO Industrial has designed and manufactured a new range of self bunded, low profile, service trailers. Based upon our popular range of self bunded fuel trailers, the PETRO Service Trailer is the perfect support tool for your mobile equipment. PETRO Service Trailers can be configured with a huge variety of equipment allowing you to customise the trailer to suit your specific site requirements.

Choice of overall capacities - our most popular designs are 1250L and 2000L

- Meets most international requirements for on road transport of combustible liquids such as diesel, lubricants and waste oils;
- Calibrated anodised aluminium dipsticks for each compartment;
- Provision for rear drop down supports for trailer stability when the trailer is not connected to a vehicle;
- Heavy duty stainless steel roll bars firmly fixed to the main chassis unit;
- Tanks are mounted over the axle assembly for even distribution of weight;
- Peerless electric start diesel driven air compressor. The onboard compressor provides pneumatic power for the dispensing equipment, tyre inflation and to run site air tools as required. A solar panel is provided to recharge the battery powering the electric start for the diesel driven compressor;
- 9kg fire extinguisher and bracket.

PETRO designs and manufactures a wide range of customized Service Bodies to suit in turn a huge range of vehicles / applications. Projects we have undertaken include Trailers, On Road Light and Heavy Vehicles and Off Road Heavy Vehicles.

PETRO will provide a full turn key solution including:
- Development of a detailed scope and user functionality specification - in close consultation with you - the customer;
- Provision of 3D concept images for final fine tuning / design finalisation;
- Manufacture of robust, light, clever motor bodysolutions;
- Full mechanical, piping, pneumatic, hydraulic and electrical fit out, factory testing and commissioning;
- Site commissioning and staff training.
DANGEROUS GOODS STORES

SITE SERVICE MODULES

We are able to customise the PETRO Industrial Dangerous Goods Stores to provide a complete, all-inclusive Site Service Module for your project site. We can provide a fully contained self bunded lubricants storage and dispensing module including:

- Self bunded tanks;
- Quality Air or Electric Operated Dispensing Equipment;
- Filtration, Metering and Hose Reels / Nozzles;
- Storage for Drums or Racking for 1000L Intermediate Bulk Containers (IBCs);
- All models are full assembled and wet tested prior to despatch to your site;
- We are able to retrofit gantry units to provide safe drum lifting and manoeuvring capability. There is even enough room to house a diesel driven generator or compressor within the module;
- Common configurations allow for storage and dispensing of engine oil, hydraulic fluid, gear oil, coolant, grease and waste oil.

PETRO Industrial has developed an extensive range of Dangerous Goods Stores for the secure, environmentally compliant and safe storage of all of your chemical, hydrocarbon, paint, thinners and other liquid requirements.

We have put a lot of research into designing a compliant range of stores ensuring you meet the strict environmental rules and regulations relating to Dangerous Goods Storage.

Features:
- CSC plated (3M, 6M & 12M models);
- Fully bunded in accordance with AS1940 requirements;
- Galvanised removable grating for simple, easy cleaning of the bund over time;
- Full bore lockable bund drain / evacuation valve;
- All models have a quality 200 micron paint finish;
- Weatherproof ventilation in accordance with AS1940 requirements;
- Internal emergency door release;
- Lockable doors with keyed lock system;
- Strong, robust, heavy duty design;
- Forklift protector plates to protect the container when being moved;
- Fully secure and lockable;
- Weather and vermin proof;
- Weatherproof large ventilation grills located both at the top and the bottom of the container to remove dangerous fumes, reduce the temperature in the container and allow cross flow of air through the unit.

<table>
<thead>
<tr>
<th>Model</th>
<th>Tare Weight</th>
<th>Capacity</th>
<th>Internal (mm)</th>
<th>External (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.8m</td>
<td>780kg</td>
<td>470L</td>
<td>1726 x 1872 x 1730</td>
<td>1830 x 1960 x 1990</td>
</tr>
<tr>
<td>2.4m</td>
<td>1050kg</td>
<td>900L</td>
<td>1898 x 2112 x 2151</td>
<td>2438 x 2200 x 2445</td>
</tr>
<tr>
<td>3m</td>
<td>1700kg</td>
<td>1150L</td>
<td>2042 x 2156 x N/A</td>
<td>2483 x 2494 x N/A</td>
</tr>
<tr>
<td>6m Side</td>
<td>3550kg</td>
<td>2700L</td>
<td>2398 x 2483 x 5740</td>
<td>6058 x 2550 x 2896</td>
</tr>
<tr>
<td>6m 4 Doors</td>
<td>3200kg</td>
<td>2550L</td>
<td>2400 x 2400 x 2400</td>
<td>6058 x 2550 x 2896</td>
</tr>
<tr>
<td>12m Side Doors</td>
<td>5350kg</td>
<td>5660L</td>
<td>2410 x 2410 x 2410</td>
<td>12192 x 2600 x 2896</td>
</tr>
</tbody>
</table>

All PETRO Industrial 3M, 6M and 12M models are a two pallet wide design with an internal width of 2400mm and height of 2610 (above bund).
**MECLUBE DRUM AND IBC BUNDS**

- Heavy duty steel drum bund;
- Removable galvanised grate;
- Forklift tykes;
- Industrial quality powder coated finish;
- Drain point with locable ball valve.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>023-1905-000-CATA</td>
<td>Drum Bund Steel 1 x 180L - 220L</td>
<td>1000 x 850 x 300 mm</td>
</tr>
<tr>
<td>023-1910-000-CATA</td>
<td>Drum Bund Steel 2 x 180L - 220L</td>
<td>1350 x 850 x 300 mm</td>
</tr>
<tr>
<td>023-1914-000-CATA</td>
<td>Drum Bund Steel 4 x 180L - 220L</td>
<td>1310 x 1350 x 300 mm</td>
</tr>
<tr>
<td>023-1915-000-CATA</td>
<td>Bund IBC Steel 1 x 1000L</td>
<td>1650 x 1570 x 300 mm</td>
</tr>
</tbody>
</table>

**MECLUBE DRUM RACKS**

- Horizontal support to store drums;
- Suitable for storage of metal drums containing lubricants;
- Easily transportable with a forklift;
- Compatible with many different liquids.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>023-1920-000-CATA</td>
<td>Steel Drum Rack Suits 1 x 180L - 220L Drum</td>
<td>600 x 600 x 380 mm</td>
</tr>
<tr>
<td>023-1921-000-CATA</td>
<td>Steel Drum Rack Suits 2 x 180L - 220L Drums</td>
<td>1180 x 600 x 380 mm</td>
</tr>
<tr>
<td>023-1922-000-CATA</td>
<td>Steel Drum Rack Suits 3 x 50L - 60L Drums</td>
<td>1180 x 600 x 380 mm</td>
</tr>
</tbody>
</table>

**MECLUBE DRUM BUNDS WITH HOSE REEL FRAME**

- Heavy duty steel drum bund c/w frame for mounting of hose reels, pumps and nozzles;
- Removable galvanised grate;
- Forklift tykes;
- Industrial quality powder coated finish;
- Drain point with locable ball valve.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>023-1925-000-CATA</td>
<td>Drum Bund with back support for hose reel suits 1 x 180L - 220L Drum</td>
<td>600 x 600 x 380 mm</td>
</tr>
<tr>
<td>023-1926-000-CATA</td>
<td>Drum Bund with back support for hose reel suits 2 x 180L - 220L Drums</td>
<td>1180 x 600 x 380 mm</td>
</tr>
</tbody>
</table>

**FIXAPIPE REPAIR KIT**

- Can be applied to a variety of pipes, joints and tee repairs of different shapes and sizes;
- Repair damaged/leaking pipes in minutes;
- Fast, effective cost-saving product reduces downtime and labour;

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC7197845</td>
<td>Fixapipe repair kit small</td>
<td>50 x 3600 mm</td>
</tr>
<tr>
<td>SC7197846</td>
<td>Fixapipe repair kit medium</td>
<td>75 x 3600 mm</td>
</tr>
<tr>
<td>SC7197847</td>
<td>Fixapipe repair kit large</td>
<td>100 x 3600 mm</td>
</tr>
<tr>
<td>SC7197848</td>
<td>Fixapipe repair kit extra large</td>
<td>100 x 4900 mm</td>
</tr>
</tbody>
</table>

**DIESEL EXHAUST FLUID EQUIPMENT**

**DEF DISPENSER – PRODUCT CODE: DEF-COMPAC**

- 30lpm dispensing rate;
- Single hose or dual hose dispenser;
- Master range for commercial applications / Laser range for retail applications
- Can dispense DEF and diesel from one unit – dual hose model only;
- Highly accurate coriolis mass flow meter;
- NMI approved for resale / custody transfer applications;
- Stainless steel components;
- Corrosive resistant piping and seals;
- NOTE dispenser only, hi-mast, hose and nozzle supplied separately.

The design of Compac’s DEF dispenser is based on Compac’s many years of experience custom designing and manufacturing equipment for a range of fuels in Australia, New Zealand and International Markets.

A major feature of the DEF dispenser is the use of Compac’s Coriolis mass flow meter. With no moving parts, the meter is made from high grade stainless steel. No maintenance is required and there is no calibration drift with time. The meter is highly accurate and comes with NMI approvals allowing it to be used on retail and commercial sites that sell to the public.

Stainless steel components have also been used throughout the dispenser, along with corrosive resistant components, piping and seals to handle this unique additive.

Because the DEF dispenser comes from the Master and Laser dispenser design, Compac Service Agents are familiar with the unit, making installation and servicing straightforward.

A dual dispenser offering both DEF and Diesel offers benefits in space saving as well as in installation time and cost. Vehicles can be filled with either DEF or both DEF and Diesel, in the same place, at the same time.

Safe filling of DEF is assured by the use of a magnetic contact between nozzle and fillpoint. This means there can be no accidental use of DEF.

Management of dispensing is made easy by using a Compac Fuel Management System (FMS). A range of cost effective solutions are available which offer secure monitoring 24/7.

<table>
<thead>
<tr>
<th>Range</th>
<th>Dispenser</th>
<th>Hose</th>
<th>Product</th>
<th>Flow Rate</th>
<th>FMS Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini</td>
<td>1</td>
<td>1</td>
<td>DEF</td>
<td>30lpm</td>
<td></td>
</tr>
<tr>
<td>Mini</td>
<td>1</td>
<td>2</td>
<td>DEF</td>
<td>30lpm</td>
<td></td>
</tr>
<tr>
<td>Max</td>
<td>1</td>
<td>1</td>
<td>DEF</td>
<td>80lpm</td>
<td></td>
</tr>
<tr>
<td>Max</td>
<td>1</td>
<td>2</td>
<td>DEF</td>
<td>80lpm</td>
<td></td>
</tr>
<tr>
<td>Max</td>
<td>2</td>
<td>1</td>
<td>DEF</td>
<td>30lpm</td>
<td></td>
</tr>
<tr>
<td>Max</td>
<td>2</td>
<td>2</td>
<td>DEF</td>
<td>30lpm</td>
<td></td>
</tr>
</tbody>
</table>
# DIESEL EXHAUST FLUID EQUIPMENT

## DEF (ADBLUE®) BOWSER PIUSI – PRODUCT CODE: F00744000-CATA

- Comes with integrated Fluids Management System;
- Will record date / time and volume of AdBlue® dispensed;
- User or vehicle details;
- Has a permanent solid state memory that will record the last 255 transactions up to 80 users;
- Pump - 230V Single Phase Diaphragm Pump - Self Priming;
- Pump Duty Cycle-20 minutes;
- Filtration - Piusi AdBlue® 3D Filter;
- Meter - Tubine Digital Flow Meter c/w Pulse Output;
- Meter Accuracy - +/- 1%;
- Nozzle - Piusi SB325 Automatic Shut Off Nozzle c/w Breakaway System and Stainless Steel Spout;
- Hose - 6m x 19mm (3/4") ID Hose;
- Housing - sturdy pressed steel housing c/w front opening lockable cover for easy access for future maintenance and servicing;
- Protection - Roll down cover to protect the PIN Pad / Digital Display from the elements;
- Electrical - 230V 50HZ 400W 1.95amp AC IP55 Protection.

### Additional Requirement:

**FMS PIUSI SELF SERVICE DESK FUEL MANAGEMENT SOFTWARE KIT**

Product Code: FMS-F14144040-CATA

c/w Software / Manager Key / USB Kit / 10 x User Keys to suit Pump Units with Integrated FMS

### CABINET PUMP KIT – PRODUCT CODE: DEF-F0020196A-CATA

- 30lpm dispensing rate;
- Available 12V / 24V / 120V / 230V power options;
- Complete dispensing kit including robust weatherproof cabinet, suction hose, IC4 meter, pump, 4m 19mm id delivery hose and auto shut off nozzle;
- Meter accuracy +/- 1%;
- Lockable door;
- Can be fitted to a wall, tank or intermediate bulk container;
- Inbuilt nozzle stow.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow Rate</th>
<th>Volt/Hz</th>
<th>AC RPM</th>
<th>Watt</th>
<th>Nozzle</th>
<th>Delivery Hose m</th>
<th>On-Off Switch</th>
<th>Weight kg</th>
<th>Packaging mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>F0020196A</td>
<td>SuzzaraBlue DRUM</td>
<td>34</td>
<td>230/50</td>
<td>1450</td>
<td>370</td>
<td>Automatic</td>
<td>4</td>
<td>Yes</td>
<td>25</td>
<td>575x320x607</td>
</tr>
</tbody>
</table>

## DRUM DISPENSING KIT – PRODUCT CODE: DEF-F0020135C-CATA

- 30lpm dispensing rate;
- Available 12V / 24V / 120V / 230V power options;
- Complete dispensing kit including stainless steel drum bracket, suction hose, pump, 6m x 19mm id delivery hose, nozzle stow, and manual shut off nozzle;
- Drum suction tube available upon request – PRODUCT CODE: F15006010;
- Trolley available upon request – PRODUCT CODE: R12068010.

### FILTER – PRODUCT CODE: DEF-41060+31015-CATA

Cleanliness of your DEF solution is vital. You are introducing this fluid to a very important and indeed expensive part of your vehicle. Filtration of the DEF Solution is a cost effective investment to ensure that your exhaust system components are protected from the introduction of contaminants.

- Elements:
  - PRODUCT CODE: 31011 - 1 Micron - Fused Chemical-Resistant PP Pleated Filter Cartridge, EPDM gaskets - not stock - lead time approx 2 weeks;
  - PRODUCT CODE: 31015 - 5 Micron - Fused Chemical-Resistant PP Pleated Filter Cartridge, EPDM gaskets - carried ex stock;
  - Heavy duty 304 Stainless Steel filter housing;
  - 25mm (1") NPT female inlet and outlet;
  - Removable and replaceable filter element unit;
  - Will remove particulates and crystallised Urea from your DEF solution.

### PIUSI SUZZARA BLUE DELPHIN – PRODUCT CODE: DEF-F18424P1120A-CATA

This new system, properly designed for workshop / garage requirements, is portable and allows safe refilling of urea into vehicles’ tanks.

- Delphin is built from a sturdy trolley that carries the urea tank everywhere;
- Once the upper Delphin tank is full the tank of the car will be refilled;
- The membrane 230 Volt pump fills the upper Delphin tank;
- The sturdy structure of the trolley allows the user to be able to supply the liquid many times;
- The filling valve to be connected to the tank car, is designed according to ISO 22241 and allows easy refueling;
- The upper Delphin tank is full the tank of the car will be refilled;
- This new system avoids leaks and drippings;
- Versatile, easy to move and user friendly;

### Closed System

- DEF can not be polluted by external agents thanks to the new Delphin system. In fact, the air of the car tank is moved to the upper Delphin tank during the refueling of the car;
- The sturdy structure of the trolley allows the user to be able to supply the liquid many times;
- The filling valve to be connected to the tank car, is designed according to ISO 22241 and allows easy refueling;
- Delphin has a visual level indicator, which allows the user to control the amount of liquid delivered into the vehicle tank.
DEF must be clean for proper dosing to occur and turn NOx into harmless nitrogen and water vapor.

Donaldson DEF Filter

Today’s Selective Catalytic Reduction (SCR) emissions control systems require clean Diesel Exhaust Fluid (DEF) for precise dosing and complete atomization to occur. However, contamination from transfer and storage or corrosion from incompatible materials can prevent your SCR system from getting the clean DEF it needs for proper operation. The Donaldson DEF filter catches contaminants before they reach your vehicle or equipment and the onboard DEF filter. Clean DEF ensures proper function of the SCR and extends the life of the onboard DEF filter.

- 1 micron at beta 5000 efficiency;
- 316 stainless steel housing;
- Precise knife edge internal seal;
- Heavy duty construction;
- Maximum working pressure of 300 psi / 2068 kPa / 20.7 bar;
- Leak-free O-ring seal;
- Integrated gauge/sample ports;
- Precise knife edge internal seal;
- Replacement filters available individually;

DEF IS HIGHLY CORROSIVE. All pipe fittings must be compatible with DEF. Most plastics as well as stainless steel are acceptable. Carbon steel, zinc, aluminum, brass, copper, etc. are not recommended due to undesirable chemical reactions. If any of these materials are used in your system they should be immediately replaced with a compatible material.

DEF HAND PUMP ROTARY STYLE PIUSI – PRODUCT CODE: DEF-F00332A50-CATA

- Continuous tank level monitoring;
- OCIO detects the static pressure generated by the fluid height by means of a tube inserted into the tank and displays the fluid level or volume;
- The unit is equipped with intuitive, complete software and permits the connection of two alarm or lock devices. The software is used to:
  - Set tank type and dimensions;
  - Define alarm levels;
  - Define indication level;
  - Define measurement unit;
  - Calibrate the instrument;
- Depending on the set alarm levels, the control unit activates or deactivates the contact by acting as a remote switch forstarting the alarms or cutting power to the connected equipment;
- Maximum measurable height: 4m. Probe tube length: 10m;
- Maximum distance control panel / tank is 50 metres.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Viscosity (cSt)</th>
<th>AC input</th>
<th>RS Exit</th>
<th>Weight (kg)</th>
<th>Packaging (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F00755140</td>
<td>OCIO desk Single Tank (software + PC interface for 1 tank)</td>
<td>0.4</td>
<td>0.4</td>
<td>0.4</td>
<td>1.5</td>
<td>300x410x140</td>
</tr>
<tr>
<td>F00755140A</td>
<td>OCIO desk Multi Tank 4 (software + PC interface for 4 tanks)</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>300x410x140</td>
<td></td>
</tr>
<tr>
<td>F00755140B</td>
<td>OCIO desk Multi Tank 8 (software + PC interface for 8 tanks)</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>300x410x140</td>
<td></td>
</tr>
<tr>
<td>F00755140C</td>
<td>OCIO desk Multi Tank 12 (software + PC interface for 12 tanks)</td>
<td>3.5</td>
<td>3.5</td>
<td>3.5</td>
<td>300x410x140</td>
<td></td>
</tr>
<tr>
<td>F00755140D</td>
<td>OCIO desk Multi Tank 16 (software + PC interface for 16 tanks)</td>
<td>4.5</td>
<td>4.5</td>
<td>4.5</td>
<td>300x410x140</td>
<td></td>
</tr>
</tbody>
</table>

OCIO DESK – SOFTWARE

OCIO software allows the OCIO tank gauge to be directly coupled to a personal computer;
- By means of an interface you can connect up to 12 OCIO level gauges and send data direct via cable to PC up to 1,000 metres away;
- Developed to store historic tank level data according to different criteria:
  - At each time interval, at each variation in level and at each variation in volume;
  - The recorded data is displayed as a diagram showing the historical tank level data;
- Software permits configuration of each tank and alarm type.

DEF FILTER HOUSING 1” BSPT Housing includes mounting bracket and filter wrench

Code: PS75058

DEF FILTER ELEMENT

Sold separately

Code: PS75059

DEF HOUSING O-RING

Replacement part

Code: PS75060

Max. Flow Range

10 gpm / 38 lpm

Operating Temperature

12 to 122 °F / -11 to 50 °C

Filter Material

Polypropylene, EPDM gaskets

Indicator Port

1/4” NPT, upstream and downstream

Drain Plug

1/4” NPT

OCIO – PRODUCT CODE: DEF-F00755140-CATA

DEF FILTER HOUSING 1” BSPT Housing includes mounting bracket and filter wrench

Code: PS75058

DEF FILTER ELEMENT

Sold separately

Code: PS75059

DEF HOUSING O-RING

Replacement part

Code: PS75060

Max. Flow Range

10 gpm / 38 lpm

Operating Temperature

12 to 122 °F / -11 to 50 °C

Filter Material

Polypropylene, EPDM gaskets

Indicator Port

1/4” NPT, upstream and downstream

Drain Plug

1/4” NPT
**Hose**

- ¾" (19mm) ID specifically designed for the suction or delivery of DEF liquid;
- Supplied c/w BSP (or NPT upon special order) male ends;
- Custom lengths are available;
- Available in a number of standard configurations as outlined below:
  - 4m delivery - PRODUCT CODE: F14250000;
  - 6m delivery - PRODUCT CODE: F14250020;
  - 8m delivery - PRODUCT CODE: F14250030;
  - 10m delivery - PRODUCT CODE: F14250040;
  - 80m coil delivery - PRODUCT CODE: F14250050;
  - 1.5m suction c/w foot valve - PRODUCT CODE: F14146000;
  - 40m coil suction - PRODUCT CODE: F14124000.

**Hose Reel**

- Range of robust spring rewind hose reels designed specifically for the dispensing of DEF liquid;
- Designed to be used with ¾" (19mm) id hose;
- The hose reels have been designed to produce minimal pressure loss through the flow path to maximise the flow rate dispensed;
- Range of 3 reels available:
  - Bare;
  - 8m hose;
  - 15m hose;
- Hose reels feature:
  - Adjustable arms;
  - Hose stop;
  - Safety spring pack with no exposed parts thus reducing any pinch points;
  - Protective latch mechanism;
- Optional fixed support plates:
  - PRODUCT CODE: F17316000 – SMALL REEL;
  - PRODUCT CODE: F16298000 – BIG REEL;
- Optional swivel support plates:
  - PRODUCT CODE: F17317000 – SMALL REEL;
  - PRODUCT CODE: F16279000 – BIG REEL;
- Optional fixed support plates:
  - PRODUCT CODE: F17317000 – SMALL REEL;
  - PRODUCT CODE: F16279000 – BIG REEL;
- B/C base kit available PRODUCT CODE: F17275000.

**Product Code**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Hose</th>
<th>Max operating pressure bar</th>
<th>Inlet</th>
<th>Outlet</th>
<th>Hose max length bound</th>
<th>A mm</th>
<th>Hose length m</th>
<th>Pressure loss bar</th>
<th>Weight kg</th>
<th>Packaging mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>F00750000</td>
<td>Hose reel ¾&quot; without hose SMALL</td>
<td>¾&quot;</td>
<td>25</td>
<td>¾&quot;</td>
<td>¾&quot;</td>
<td>100</td>
<td>55</td>
<td>100</td>
<td>0.1 @ 35 lpm</td>
<td>14</td>
<td>550x250x630</td>
</tr>
<tr>
<td>F00751000</td>
<td>Hose reel ¾&quot; with hose SMALL</td>
<td>¾&quot;</td>
<td>100</td>
<td>¾&quot;</td>
<td>¾&quot;</td>
<td>100</td>
<td>55</td>
<td>100</td>
<td>0.1 @ 35 lpm</td>
<td>14</td>
<td>550x250x630</td>
</tr>
<tr>
<td>F00751010</td>
<td>Hose reel ¾&quot; x ¼&quot; x ¾&quot; without hose SMALL</td>
<td>¾&quot;</td>
<td>100</td>
<td>¾&quot;</td>
<td>¾&quot;</td>
<td>100</td>
<td>55</td>
<td>100</td>
<td>0.1 @ 35 lpm</td>
<td>14</td>
<td>550x250x630</td>
</tr>
<tr>
<td>F14250000</td>
<td>Hose reel ¾&quot; x ¼&quot; x ¾&quot; BIG</td>
<td>¾&quot;</td>
<td>100</td>
<td>¾&quot;</td>
<td>¾&quot;</td>
<td>100</td>
<td>55</td>
<td>100</td>
<td>0.1 @ 35 lpm</td>
<td>14</td>
<td>550x250x630</td>
</tr>
<tr>
<td>F14250020</td>
<td>Hose reel ¾&quot; x ¼&quot; x ¾&quot; BIG</td>
<td>¾&quot;</td>
<td>100</td>
<td>¾&quot;</td>
<td>¾&quot;</td>
<td>100</td>
<td>55</td>
<td>100</td>
<td>0.1 @ 35 lpm</td>
<td>14</td>
<td>550x250x630</td>
</tr>
<tr>
<td>F14250030</td>
<td>Hose reel ¾&quot; x ¼&quot; x ¾&quot; BIG</td>
<td>¾&quot;</td>
<td>100</td>
<td>¾&quot;</td>
<td>¾&quot;</td>
<td>100</td>
<td>55</td>
<td>100</td>
<td>0.1 @ 35 lpm</td>
<td>14</td>
<td>550x250x630</td>
</tr>
<tr>
<td>F14250040</td>
<td>Hose reel ¾&quot; x ¼&quot; x ¾&quot; BIG</td>
<td>¾&quot;</td>
<td>100</td>
<td>¾&quot;</td>
<td>¾&quot;</td>
<td>100</td>
<td>55</td>
<td>100</td>
<td>0.1 @ 35 lpm</td>
<td>14</td>
<td>550x250x630</td>
</tr>
</tbody>
</table>

**Nozzle Manual**

- Flow rate up to 80 litres per minute;
- Inlet ¾" (20mm) hose tail;
- Outlet ¾" OD (20mm);
- Maximum pressure 3.4 bar;
- Weight 0.2kg;
- PRODUCT CODE: F15776000 plastic ¾" (20mm) threaded adaptor.

**Nozzle Automatic**

- An exciting range of new automatic shut off nozzles designed for the worldwide DEF equipment market;
- Reliable, light, easy to handle and ergonomic nozzle;
- Designed for the industrial / commercial market specifically for the dispensing of DEF liquid;
- Suitable for use with liquids with a viscosity range of 1 to 6cSt;
- Inlet 1" (25mm) male BSP (1" (25mm) female BSP on request);
- Spout outer diameter: 19 mm;
- Flow rate up to 35lpm;
- Suitable for use with magnetic mis-fill device system;
- Options for simple nozzle or nozzle with inbuilt digital meter;
- Accuracy of meter +/- 0.5%;
- Suitable for use with other liquids and chemicals please refer to your PETRO Industrial office for further advice relating to chemicals compatibility;
- Designed for the industrial / commercial market specifically for the dispensing of DEF liquid;
- Reliable, light, easy to handle and ergonomic nozzle;
- An exciting range of new automatic shut off nozzles designed for the worldwide DEF equipment market;
- Robust integrated nozzle guard designed to protect the nozzle / shut off mechanism in operation;
- Fully molded nozzle sleeve;
- PRODUCT CODE: F15765000 magnetic mis-fill device - spout with locking device for filler neck magnet adaptor to avoid misfuelling.

**Code**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Magnetic adapter</th>
<th>Flow-rate L/min</th>
<th>Flow-rate gpm</th>
<th>Meter</th>
<th>Weight kg</th>
<th>Packaging mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>F00180000</td>
<td>Pistola automatica SB32</td>
<td>No</td>
<td>15</td>
<td>9</td>
<td>No</td>
<td>0.7</td>
<td>447x178x63</td>
</tr>
<tr>
<td>F00180100</td>
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<td>No</td>
<td>15</td>
<td>9</td>
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<tr>
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</tr>
</tbody>
</table>

**Nozzle Manual**

- PRODUCT CODE: F14761000

**Nozzle Automatic**

- PRODUCT CODE: F14761000

**Hose Reel**

- Plastic Adapter for K24 manual nozzle

**Nozzle Manual**

- ¾" (19mm) ID specifically designed for the suction or delivery of DEF liquid;
- Supplied c/w BSP (or NPT upon special order) male ends;
- Custom lengths are available;
- Available in a number of standard configurations as outlined below:
  - 4m delivery - PRODUCT CODE: F14250000;
  - 6m delivery - PRODUCT CODE: F14250020;
  - 8m delivery - PRODUCT CODE: F14250030;
  - 10m delivery - PRODUCT CODE: F14250040;
  - 80m coil delivery - PRODUCT CODE: F14250050;
  - 1.5m suction c/w foot valve - PRODUCT CODE: F14146000;
  - 40m coil suction - PRODUCT CODE: F14124000.

**Hose Reel**

- Range of robust spring rewind hose reels designed specifically for the dispensing of DEF liquid;
- Designed to be used with ¾" (19mm) id hose;
- The hose reels have been designed to produce minimal pressure loss through the flow path to maximise the flow rate dispensed;
- Range of 3 reels available:
  - Bare;
  - 8m hose;
  - 15m hose;
- Hose reels feature:
  - Adjustable arms;
  - Hose stop;
  - Safety spring pack with no exposed parts thus reducing any pinch points;
  - Protective latch mechanism;
- Optional fixed support plates:
  - PRODUCT CODE: F17316000 – SMALL REEL;
  - PRODUCT CODE: F16298000 – BIG REEL;
- Optional swivel support plates:
  - PRODUCT CODE: F17317000 – SMALL REEL;
  - PRODUCT CODE: F16279000 – BIG REEL;
- B/C base kit available PRODUCT CODE: F17275000.

**Code**

<table>
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<tr>
<th>Code</th>
<th>Description</th>
<th>Magnetic adapter</th>
<th>Flow-rate L/min</th>
<th>Flow-rate gpm</th>
<th>Meter</th>
<th>Weight kg</th>
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<td>9</td>
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<td>15</td>
<td>9</td>
<td>No</td>
<td>0.8</td>
<td>447x178x63</td>
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</tbody>
</table>
The new SB325 automatic nozzle features an innovative technopolymer casing, break-away system, and a stainless steel spout. Safety is guaranteed by the break-away system. In the event that a vehicle accidentally drives away with the nozzle still in the tank, the spout is designed to detach from the nozzle. This system also allows for a quick repair by merely fitting a new spout onto the nozzle.

- Mis-filling Kit Spout allows you to transform a standard SB325 nozzle into an SB325 mis-filling system by simply fitting a different spout onto the nozzle;
- This system will prevent a potential mis-fill when the SB325 mis-filling spout is used in conjunction with the magnet in the opening of the tank;
- The Piusi Magnetic Adaptor allows the SB325 mis-filling spout to be used with all tanks;
- Designed in compliance with International Standards ISO/ FDIS 2241-4:2009 concerning AdBlue® dispensing nozzles;
- The nozzle is also available with a built-in electronic turbine flow meter;
- Liquid viscosity range from 1 to 6 cSt;
- Inlets 3/4” with hose end-fitting;
- Spout outer diameter: 19mm.

### Code Description

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow Rate</th>
<th>Pressure</th>
<th>Inlet</th>
<th>Swivel</th>
<th>Spout d.</th>
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<tbody>
<tr>
<td>F00617000</td>
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<td>35 lpm</td>
<td>3.5</td>
<td>3/4”</td>
<td>No</td>
<td>19mm</td>
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<tr>
<td>F00617010</td>
<td>Automatic Nozzle SB32 Meter</td>
<td>35 lpm</td>
<td>3.5</td>
<td>3/4”</td>
<td>No</td>
<td>19mm</td>
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<tr>
<td>F19174000</td>
<td>Misfilling Kit Spout (misfilling syst. + Piusi Mag. Adapt.)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>F18400000</td>
<td>Piusi Magnetic Adaptor</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### FEATURES:

- Multifunction display
- Stainless steel Spout
- Piusi magnetic Adaptor
- Misfilling Kit Spout
- Tank Magnetic Adaptor

### ON REQUEST:

- Free flow rate up to 50lpm at a maximum of 7 bar;
- High effect double piston pumping action;
- Compression ratio - 2:1;
- Air pressure - 4-8 bar;
- Air consumption - 200-250 lpm;
- Suction connection diameter - 42 mm;
- Air inlet connection - F. 1/4”G;
- Suction connection - F. 1”G;
- Outlet connection - M. ¾”G;
- Total length - 455mm | width - 80mm | weight - 2.7kg;
- Fiberglass forced composite structure is highly chemical resistant and all metal parts in contact with the fluid are made of stainless steel.

### CODES:

- R19172000 (misfilling syst.)
- Code: R19173000 (standard syst.)
- Code: F18400000 Piusi magnetic adaptor + stainless steel spout with misfilling system Code: F19174000
- Code: F15165000

### METER K24 – PRODUCT CODE: F0040710A

- Accuracy +/- 1%;
- Flow rate 6 to 100 litres per minute;
- End connections 25mm BSP male – supplied with 1 x socket for adaption to 1 x 25mm female outlet;
- Unit is able to be calibrated;
- Easy to install, either inline or at the end of the delivery hose with the dispensing nozzle;
- Display can be rotated in 4 different positions;
- Easily replaceable batteries;
- Electronic card with LCD display - 5 digit partial total from 0.1 to 99999; 6 digit total from 1 to 999999;
- Resettable total available;
- Flow rate indication.

### PUMP – AIR OPERATED – PRODUCT CODE: DP2100

- Kit designed for use with 1000L Intermediate Bulk Containers (IBC) to allow gravity drain from the bottom valve / connection on the IBC unit;
- Kit includes: adapter for connection to IBC | 4m x N”(19mm) id DEF hose | manual shut off nozzle | hose clamps;
- NOTE IBC must be placed in such a position to allow gravity drainage into required equipment;
- Optional K24 meter available PRODUCT CODE: F0040710A;
- Not suitable for use with automatic shut off nozzles.
These range of kits have been specifically developed to provide the ideal solution for dispensing DEF liquid from Intermediate Bulk Containers (IBC). The kits have been designed to be transferred easily between IBC’s as IBC’s are used and replaced.

- Flow rate 34 litres per minute;
- The core to the range of IBC dispensing kits is the self priming diaphragm pump. This robust range of 12V, 24V, 120V and 230V pumps are designed without a dynamic seal. The pumps are designed specifically for the unique challenges faced when dispensing DEF liquid;
- Two kits are available, basic and pro. The contents of each kit are outlined in the table below;
- Each kit is supplied with a 304 stainless steel pump base. This clever pump base easily hangs on the side of the IBC. The pump base includes a removable bunded nozzle stow for ease of cleaning;
- You have a choice of top suction or bottom suction from the IBC. Please note the top suction option is not supplied with a dip tube;
- PRODUCT CODE: F15606220 IBC dip tube 2” (50mm) BSP plug head;
- PRODUCT CODE: F15606090 IBC dip tube 56.4 plug head;
- We recommend the use of a filter when dispensing DEF and in turn allows for an increased life of the catalyst. The Piusi Three25 features a complete, turnkey system that gives users the ability to safely dispense their DEF fluids;
- Current market research and demands have encouraged 7 major technical and structural innovations to the Piusi Three25
  1. DEF 3D filter
  2. Sturdy, stainless steel, plate with roll bar protection.
  3. SEC connector for plastic couplings or new Piusi DEF Coupler (PDC) for common IBC tank steel coupling systems
  4. New security lock bracket system
  5. High Capacity Hose Holder and Practical Nozzle Holder
  6. Crimped EPDM delivery hose

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow rate lpm</th>
<th>AC Voltage</th>
<th>DC Voltage</th>
<th>Rpm</th>
<th>Watt</th>
<th>Amp</th>
<th>Meter Mod</th>
<th>Nozzle Mod</th>
<th>Suction Type</th>
<th>On/Off Switch</th>
<th>Cables</th>
<th>Hose Length</th>
<th>Weight</th>
<th>Connections</th>
<th>Packaging</th>
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</thead>
<tbody>
<tr>
<td>F00201B0A</td>
<td>SUZZARABLUE PRO</td>
<td>34</td>
<td>230/50</td>
<td>1450</td>
<td>350</td>
<td>Yes</td>
<td>Manual</td>
<td>6</td>
<td>10</td>
<td>K24</td>
<td>SB325</td>
<td>Sec</td>
<td>6</td>
<td>Yes</td>
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<td>480x360x310</td>
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<td>F00201B2A</td>
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<td>K24</td>
<td>SB325</td>
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<td>480x360x310</td>
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<td>F00201B3A</td>
<td>SUZZARABLUE PRO K24 / external suction</td>
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<td>10</td>
<td>K24</td>
<td>SB325</td>
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<td>1.95</td>
<td>480x360x310</td>
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<td>F00201B4A</td>
<td>SUZZARABLUE BASIC / external suction</td>
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<td>1450</td>
<td>350</td>
<td>Yes</td>
<td>Manual</td>
<td>6</td>
<td>10</td>
<td>K24</td>
<td>SB325</td>
<td>Sec</td>
<td>6</td>
<td>Yes</td>
<td>1.95</td>
<td>480x360x310</td>
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</table>
**PORTABLE PUMP KIT – 12V OR 240V**

- Flow rate up to 36 litres per minute;
- Portable transfer kit complete with:
  - 1.5m ¾” dia suction hose with foot valve assembly;
  - 6m ¾” dia delivery hose;
  - Piusi diaphragm pump;
  - Manual shut off nozzle;
- Available in 12V DC or 240V AC power options;
- Self priming pump design;
- Terminal box with switch and fuses to protect against overloads;
- 12V DC option supplied with 2m battery cable and clamps;
- 240V AC option supplied with 2m power lead and plug;
- 12V DC option duty cycle 20 minutes;
- Inlet ¾” (20mm) hose tail;
- Outlet ¾” O/D (20mm) hose tail;
- Maximum pressure 1.5 bar;
- Weight:
  - 12V DC option – 8kg;
  - 240V AC option – 10kg;
- UPGRADE - PRODUCT CODE: F00618000 – automatic shut off nozzle;
- UPGRADE - PRODUCT CODE: F00618010 – automatic shut off nozzle c/w inbuilt meter;

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow rate lpm</th>
<th>Volt/Hz</th>
<th>AC Rpm</th>
<th>Watt</th>
<th>Nozzle</th>
<th>Delivery hose m</th>
<th>On-Off Switch</th>
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**PULSE METER – PRODUCT CODE: F00420000A**

- Inline pulse meter;
- Accuracy +/- 1%;
- Meter is able to be calibrated;
- Flow rate up to 40 lpm;
- Pulse out 88 v/;
- Type of output signal: raw signal;
  - (Reed switch), single channel;
- Max 28 V Ac/dc 100 mAmp;
- 1” (25mm) BSP Male Ends;
- Compact stainless steel body;
- UPGRADE - PRODUCT CODE: F0049503B – remote display with pulse output.

**Rapid Blue® Genius Dispensing Units**

- Fast and convenient DEF dispensing streamlining transfer for transport fleets through to farm tractors;
- 35 lpm all stainless steel pump with internal bypass for durability and ease of use;
- Fully enclosed lockable pump compartment for security and protection;
- Manufactured from urea grade polyethylene;
- Complete units: ready-for-use;
- Available in 100L - 1200L.

<table>
<thead>
<tr>
<th>Code Description</th>
<th>Capacity</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>TDAL0100LTD15AV1 100L Genius DEF Dispensing Unit</td>
<td>100L</td>
<td>800mm L x 680mm W x 465mm H</td>
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<tr>
<td>TDAL1000MMFD15AV1 200L High Profile Genius DEF Dispensing Unit</td>
<td>200L</td>
<td>800mm L x 680mm W x 715mm H</td>
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<td>TDAL200HFD15AV1 200L Low Profile Genius DEF Dispensing Unit</td>
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<td>TDAC0600LTD15AV1 600L Genius DEF Dispensing Unit</td>
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<td>1000L</td>
<td>1700mm L x 1300mm W x 1025mm H</td>
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</table>
PETRO 4000 LITRE DEF TANK – PRODUCT CODE: BMSL4000

PETRO Industrial has a long and proven experience with storage systems for oil, diesel and other chemical solutions. The chemical characteristics of Diesel Exhaust Fluid (AdBlue®) require special storage and handling equipment and the highest material demands in tank design and construction.

- 110% Bunded Tank in Tank design
- 304 Stainless Steel Fill and Suction Lines
- Nozzle holster
- Hydrostatic Tank Level Indicator
- Lockable Inner Tank Access Point on Gas Struts
- Power Junction Box with Start / Stop and Emergency Stop Controls. Power 240V 50HZ
- Bunded / Lockable Equipment Housing
- 6m x 3/4” EPDM Dispensing Hose
- Piusi Auto Shut Off Nozzle
- DAB Bluediver Submersible Pump 240V AC 1000 Twin H80
- Piusi K24 Electronic Register Flow Meter 2” ToDo Dry Break Coupling
- 200mm Threaded Inner Tank Access Point
- Hydrostatic Tank Level Indicator

Optional Extras
- Hose reel;
- Extreme weather pack (EWP) - heating and ventilation;
- Submersible pump c/v flow rate adjustment facility for forecourt / retail dispensing applications;
- Elaflex ZVA (made in Germany) Retail quality Auto Shut Off Nozzle;
- Remote monitoring;
- Overfill and Bund Alarm;
- Remote monitoring;
- Overfill and Bund Alarm.

PETRO range of heavy duty self bunded DEF (Diesel Exhaust Fluid) bulk storage tanks. Manufactured to PETRO Industrial’s exacting standards to meet the bulk DEF storage and dispensing requirements of the transport, fluids distribution, agriculture and machinery industries.

Size Range:
- 5 000L;
- 10 000L;
- 15 000L;
- 20 000L;
- 25 000L;
- 30 000L

Features:
- Fully insulated design - designed to ensure your DEF liquids remains at the optimum temperature;
- Options for air conditioning or heating for extreme climatic regions;
- 110% self bunded tank in tank design;
- Removable roof for ongoing maintenance access to inner tank;
- Insulated colour cond panel external tank design;
- Mechanical overfill protection valve c/w electronic overfill alarm;
- Rigid heavy duty aluminium frame;
- Aesthetic engineered finish;
- 304 stainless steel fill line with camlock fitting / isolation valve / non-return valve - option for ToDo fill fitting;
- Rotomoulded natural pigmented LDPE heavy duty internal tank;
- Forklift pockets;
- Front bunded lockable pump bay area;
- Industrial quality lockable roller door - option for hinged access door;
- Ability to mount dispensing and metering equipment within panel wall for easy customer dispensing access.

Dimensions (guide only - final dimensions to be confirmed upon order)

<table>
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<tr>
<th>Capacity (L)</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Weight (kg)</th>
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<td>1700kg</td>
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<td>30,000L</td>
<td>1500mm</td>
<td>2400mm</td>
<td>2600mm</td>
<td>7100kg</td>
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</table>
**FE PETRO (DEF) SUBMERSIBLE PUMP** – PRODUCT CODE: PUMP-403383953-CATA

FE Petro™ brand diesel exhaust fluid pump motor assemblies feature a stainless steel close-coupled design powered by a field-proven Franklin Electric motor. Single Phase 1.5HP up to 250lpm flow rate.

**NOTE** – we recommend the use of a STP-CBBS Single Phase Controller

**Features**
- Stainless steel encapsulated motor ensures longevity and impermeability to DEF seepage;
- Heavy-duty shaft provides superior alignment and resistance to stress;
- Double mechanical shaft seals protect the oil-filled bearing chamber from DEF seepage, assuring minimal wear and proper bearing lubrication;
- Stainless steel hydraulics provide superior performance and efficiency;
- Plug-in type EPDM jacket power cable provides ease of service and DEF compatibility;
- Multiple models available to meet global requirements of voltage and frequency.

**Specifications**
- **Materials**: Stainless steel construction including impellers/diffusers, inlet/outlet, and outer shell;
- **Pump type**: Single models are 5.1" (130 mm) outside diameter centrifugal type pump;
- **Power cable**: 32.8' (10 m) EPDM jacketed plug-in power cable;
- **60 Hz pump motor**: Two-stage pump with 2" NPT female outlet;
- **50 Hz pump motor**: Three-stage pump with 2" BSP female outlet;
- **Motor rating**: Continuous operation with motor cooling provided by product flow and protected from dry running;
- **Liquid compatibility**: All models are intended for use with Diesel Exhaust Fluid (DEF). DEF is a non-flammable, non-combustible liquid that has a specific gravity of 1.09 at 68°F, and is made per ISO 22241-1 specifications with 32.5% urea and distilled or deionized water. As defined by ISO 22241-1, DEF is the same as AUS 32 (aqueous urea solution).

**Installation**
- All models are suitable for vertical installation where the pump motor is suspended off the bottom of the tank by the discharge piping;
- Bypass relief valve with maximum cracking pressure of 3 psi (0.2 bar) required between minimum flow required at the discharge of all models;
- Non-return check valve with maximum cracking pressure of 3 psi (0.2 bar) required between product piping and bypass relief valve of all models.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Flow Rate</th>
<th>Amps</th>
<th>Capacitor</th>
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</thead>
<tbody>
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<td>50Hz</td>
<td>208-240 VAC</td>
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<td>0.5 Amps</td>
</tr>
<tr>
<td>Three Phase</td>
<td>50Hz</td>
<td>380-415 VAC</td>
<td>2.6</td>
<td>0.5 Amps</td>
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<tr>
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<td>480-575 VAC</td>
<td>5.0</td>
<td>0.5 Amps</td>
</tr>
</tbody>
</table>

Note: Three phase models require overload protection in motor starter.

DEF DRUM TROLLEY – PRODUCT CODE: DEF-R12068010-CATA

- DEF (Diesel Exhaust Fluid) TROLLEY to suit 200L Drums;
- 26kg;
- 1090mm L x 680mm W x 300mm H;
- Purchase pump separately. **External Dispensing IBC Kit** for use with this trolley. **PRODUCT CODE: DEF-F00201BB0-CATA**

**COMPAC MASTER BOWERS AND DISPENSERS**

Compac’s range of Master Pumps and Dispensers are robust and reliable, perfectly suited to commercial or retail applications.

**Benefits and features:**
- Single or dual hose;
- Variety of flow rates - 40, 80, 160 or 400 lpm;
- Non wearing high performance COM50, COM125 or COM250 meter;
- C4000 electronics approved for use in Class 1 Zone 1 hazardous areas;
- Large display 6 x 25mm digits for displays with backlighting showing money only, or money, volume and unit price;
- Easy to service - most pipe connections are flanged minimising screwed connections and speeding up service;
- Plug and Play - dispensers are factory tested and ready for installation;
- The pumps and dispensers are available for use on suction sites, or on pressure sites with submersible pumps in the underground tanks.

Compac Master pumps and dispensers can be fitted with a Card Reader or PINPAD for user-friendly, unattended access, 24 hours a day. They can operate standalone or with a:
- Compac DCA (Driveway Card Acceptor);
- Compac OPT (Outdoor Payment Terminal);
- Compac On-Pump authorisation system;
- Site controller;
- Third party controller (with the Compac RS232 interface or pulse output).

All our pumps and dispensers have New Zealand and Australian approvals so there are no issues with compliance, visit the resources section to view or download copies of these.

Also available as part of the Master Series are the Master AdBlue Dispensers.
COMPAC MASTER BOWSERS AND DISPENSERS

Options:

Compac pumps and dispensers can be individually tailored to suit your needs:
- Marinsation with displays and C4000 processor mounted in sealed weatherproof boxes. All panels and pipework are stainless steel with meter epoxy coated. Splash tray in base to prevent water from splashing up from beneath;
- Aviation models with stainless steel pipework and solenoids. No brass used;
- Hi/Lo flow switching for 160 lpm models allowing 80lpm filling for smaller vehicles;
- Displays available on one side only, or on both sides;
- Hose assembly to suit market with a range of breakaways and nozzles available;
- Pylons are available for extra hose reach;
- Overfill protection for the 400 lpm model;
- Customised look dispensers powdercoated to your colours with custom decals;
- Protocol dispensers powdercoated to your colours with custom decals;
- Fuel options include 91, 98, Diesel, Avgas, Jet, Ethanol, Biodiesel;
- Other requests can be discussed.

Compac can supply valves for bulk metering applications:
- Available size range (with flowrates) is 2" (800 lpm), 3" (2,000 lpm), 4" (4,000 lpm), and 6" (6,000 lpm);
- Other requests can be discussed.

The Compac DCA (Driveway Card Acceptor) is a stand alone terminal that works seamlessly with your dispensers to offer easy and secure unmanned refuelling, 24/7.

Features:
- Ideal for unmanned refuelling sites;
- Works with all pump types;
- Range of authorisation options available;
- Offers a total wireless solution;
- Compac keypad with contactless keys - no moving parts to wear out;
- DCA comes with a standard card reader;
- Seiko 5000 series 60 mm thermal printer, with drop box for receipt retrieval;
- Compac COM EMS pump control board capable of controlling up to 32 hoses. Flash RAM with downloadable code;
- Dispenser communication - Compac protocol | Gilbarco AUS protocol | Email protocol | Forecourt Integration with existing POS;
- Interfacing to: Veeder-Root, Franklin, Fafnir, Automatic Tank Gauging Systems;
- Environment temperature -10°C to 55° C. Nominal supply voltage 240 V AC.

The Compac Credit Card DCA (CC DCA) is a stand-alone payment terminal that is ideal for unmanned refuelling and payment, allowing you to sell fuel to the public 24 hours a day, 7 days a week.

The CC DCA particularly suited to sites such as airfields, marinas or after hours retail service stations. Used in conjunction with CompacOnline, transactions can be viewed in realtime and are processed to the highest standards assuring data security.

Features:
- Designed for unmanned refuelling and payment;
- Accepts all credit cards;
- Local cards available;
- Offers a total wireless solution;
- Use CompacOnline for management of transactions and site;
- Compac keypad with contactless keys - no moving parts to wear out;
- DCA comes with a standard card reader;
- Seiko 5000 series 60 mm thermal printer, with drop box for receipt retrieval;
- Compac COM EMS pump control board capable of controlling up to 32 hoses. Flash RAM with downloadable code;
- Dispenser communication - Compac protocol | Gilbarco AUS protocol | Email protocol | Forecourt Integration with existing POS;
- Interfacing to: Veeder-Root, Franklin, Fafnir, Automatic Tank Gauging Systems;
- Environment temperature -10°C to 55° C. Nominal supply voltage 240 V AC.

<table>
<thead>
<tr>
<th>Code &amp; Flow Rate</th>
<th>Pump (Code P)</th>
<th>Dispenser (Code S)</th>
<th>Product*</th>
<th>Hose</th>
<th>Hi/Lo Switch</th>
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</table>

* Avgas and Jet A1 fuel options also available for Marine and Aviation sites.
**COMPAC COMTANK** - PRODUCT CODE: COMTANK

- The ComTank has been developed for on-tank installation, offering a simple, secure solution to fuel distribution;
- With both security and space saving features the ComTank also includes the all-in-one self-contained fuel management solution. Unattended refuelling and management of refuelling data is a simple, straight forward process.

**Features:**
- On-tank installation;
- Diesel only;
- Control interface for master mechanical components mounted behind tank fascia;
- Effective solution for tanks that need to be locked;
- Remote mountable nozzle holsters;
- Commercial or retail display, with the option of remote mountable additional display;
- Single or dual hose;
- Stainless steel panels or gold passivated mild steel;

**COMPAC CONMFUTRA** - PRODUCT CODE: COMFUTRA

The ComFutra is Compac’s unique all-in-one pump and fuel management system. This all-in-one application comes ready to use, with most of the DCA unmanned payment software features inside the dispenser itself. With no need to buy or install extra software for the ComFutra, this is an excellent cost and time efficient option, suitable for gas stations with a single or multiple pumps.

**Features:**
- Master pump or dispenser;
- Flow rate 40, 80 or 160 lpm;
- Commercial display;
- Single or dual hose for a himast or pylon;
- Single or dual product;
- Stainless steel panels or doors or gold passivated mild steel;

**Optional Features:**
- Breakaways;
- Preset;
- HI/LO flow switch;
- Accumulator.

**COMPAC OPT (OUTDOOR PAYMENT TERMINAL)** - PRODUCT CODE: OPT

- The OPT is constructed of stainless steel and is designed for harsh, dusty outdoor environments, typical of unattended refuelling locations;
- Compac pump controller - reliably controls the dispensers on your forecourt;
- Range of payment options available with transactions processed to the highest standards which assure data security:
  - EFTPOS debit card;
  - Credit card;
  - Nation wide fuel card;
  - White card;
- Reliable printer - accepts a large roll of standard receipt paper;
- No jams - the printer has a large drop box - eliminating printing problems;
- Ingenico i9530 with tamper-detection circuitry housed in a rugged aluminium case with a tough weatherproof gasket. VeriShield file authentication and 3DES and AES encryption;
- Intelisripe 65 cardreader for fast and reliable reading of cards that meet ISO 7810, 7811 and 7816 specifications. EMV L1 4.1 - ISO 7816 approved smart card interface;
- Seiko 5000 series 60 mm Thermal printer, with drop box for receipt retrieval;
- Compac COM FMS pump control board capable of controlling up to 32 hoses. Flash RAM with downloadable code;
- Dispenser communication - Compac protocol | Gilbarco AUS protocol | Email protocol | Forecourt Integration with existing POS;
- Interfacing to: Veeder-Root, Franklin, Diptronic, Automatic Tank Gauging Systems.

**COMPAC ATG (AUTOMATIC TANK GAUGE) MONITOR** - PRODUCT CODE: ATG MONITOR

- With the Compac ATG Monitor you can view the status of multiple sites through any web browser without the use of additional software;
- Arrange viewing of sites by supply depot zones;
- Set email alerts for various level alarms such as high, low and water levels to yourself or your service provider;
- Monitor sudden changes and trends;
- Up-to-date stock and data levels;
- Secure login and encrypted data between CompacOnline and Compac ATG monitor;
- Low ATG hardware costs;
- Reasonable monthly chargers per site for unlimited access to CompacOnline;
- No expensive software or licences to purchase;
- With CompacOnline and the Compac ATG Monitor, it is simple to create tank inventory reports to help you schedule supply drops to your site. Setup is easy and PDF reports can be emailed automatically;
- Reports can be generated in the common formats:
  - PDF, Adobe PDF formats;
  - XLS Microsoft Excel worksheets;
  - CSV Comma Separated Value files.
COMPAC AVI - PRODUCT CODE: AVI

- The Compac AVI (Automatic Vehicle Identification) solution uses RFID (Radio Frequency Identification) technology to electronically identify and validate vehicle data when refuelling;
- Vehicle authorised automatically through wireless communications;
- Site controller (DCA) records all activity (tank levels, fuel dispensed etc) and automatically transfers data to CompacOnline;
- Monitor your site activity remotely - access CompacOnline via web browser;
- Security protocol ensures all requested fuel is delivered to the authorised vehicle;
- Ideal solution for unattended refuelling.

How it Works

- Simply insert the nozzle into the vehicle’s fuel tank. Fuel will start dispensing once the system has wirelessly recognised the authorised vehicle;
- The complete authorisation process, transmission of odometer (optional), release of dispenser and registration of transaction data is carried out automatically;
- Removal of the nozzle from the vehicle’s fuel tank triggers a loss of contact timer which will pause (Compac pumps) or stop (other pumps) the transaction, ensuring that all fuel is being delivered to the correct vehicle;
- The site receiver receives the wireless data from nozzle reader units and vehicle odometer units and transmits the data to the Compac pump controller;
- Transactions are temporarily stored in the Compac Site Controller. Every 15 minutes, transactions are pushed back to CompacOnline (can be more frequently if required) via the internet connection.

CompacOnline connects you to your site controller via the internet, making 24/7 fuel management easy. Just login from any web browser to view site data in real-time. No matter where you are, you can access up-to-the-minute details at the click of a button.

Features:

- Manage customer account cards - view transactions, validate or invalidate cards, update user details;
- Adjust pump pricing - select the price you want and when you want this to change;
- View transactions - including credit card, white card and eftpos transactions;
- Tank gauging - monitor tank levels, temperature, safe fill level and other important information;
- Run reports - export information from CompacOnline in PDF or Excel format.

Advantages:

- Remote access - allows you to manage your site 24/7, from anywhere with internet access;
- User-friendly - very little skill or training required to use CompacOnline;
- No software hassles - no software to install or maintain, saves you time and computer memory, and you are not limited to having to use the same computer everytime;
- Keeps your data safe - no need to worry about your computer crashing and losing data as everything is stored on a secure server and backed up;
- Secure - access only over SSL (HTTPS) with login and password, required to be changed every 35 days.

CompacOnline Module:
For our customers that have existing Netbase systems, this module allows them to connect to CompacOnline.

ATG Monitor:
A simple interface that allows you to monitor tank data levels remotely through CompacOnline, giving you the flexibility to manage multiple sites through any web browser, without the need for additional software.
What is Sapphire Lite?

Sapphire Lite is a high capacity offline terminal with the ability for 2 pump, multi-product fuelling.

Introducing the next generation of entry level Fuel Management terminals, the Sapphire Lite allows you to track every litre of fuel or fluid dispensed, utilising Contactless technology for secure and controlled fuelling. The Lite solution provides cost-effective Fuel Management with vehicle/driver and stock reporting via the Secure Connect website.

Why Choose Sapphire Lite

Sapphire Lite is the only 2 pump system in the entry level market.

Key Features:
- No requirement to install additional PC software. Manage your fleet via the easy to use, online portal, on any computer;
- High capacity memory with space for over 4000 transactions and 250 users;
- Full QWERTY keyboard allowing for easy odometer and data entry;
- Centralised reporting allows the viewing of multiple sites under one screen;
- Secure contactless technology to track every litre;
- Override switch available for manual fuelling;
- Cost effective solution for small, medium or large fleets;
- Customise reports;
- Now compatible with RS232 and RS485 interfaces for connection to tank gauge solutions.

Benefits:
- Cut your Fuel Costs – Track every litre of fuel or fluid dispensed;
- Reduce Stock Losses – Increased awareness of outgoing and incoming stock in addition to tank leakage;
- 24/7 access to your depot stocks – Log into Connect for instant access to stock levels and driver statistics;
- Greater Control & Security – Utilising Contactless technology to give secure and controlled fuelling.

Sapphire Lite and Connect combine to form a money-saving business tool providing user friendly reporting and reconciliation.

Connect Features:
- No software installation necessary - You can access the Connect portal from any pc, tablet or smartphone that is connected to the internet;
- 4 Simple screens for complete ease of use;
- Centralised reporting - View all sites under one screen;
- Stock reconciliation;
- Track fuel by vehicle or driver;
- Manage secure web portal for override facility;
- Exports to TSM Fleet Management website.

The Power of Connect...

Connect offers user friendly transaction and stock information easily accessed by unlimited users, choose from various access levels to restrict individual staff or departments if required. Connect can be accessed from any web enabled PC, tablet or smartphone. Replacing the requirement for software installed on only one PC.

Customising Your Reports...

You can choose to modify our existing formats to produce the layout of the report to suit your needs. Change headings, remove fields and design your own CSV export by changing field details and lengths. Rename the tag to a Fuel Card number, Vehicle Registration or Driver name. Connect is the flexible, easy to use solution leading the way in Entry Level Fuel Management Software.

Reports generated by Connect are available to view in a choice of formats:
- Printed Reports
- Excel Format
- CSV Format
SAPPHIRE LITEFUELLER

The cost effective, entry level Fuel Management Terminal.

Combined with the reliability and accuracy of the Litefueller commercial pump, the Sapphire Litefueller is the complete entry level Fuel Management solution in one unit, Security, Control and Online Centralised Reporting.

The Sapphire Litefueller is a commercial, entry level heavy duty fuel pump. It offers excellent performance and reliability for a cost effective solution.

Litefueller brings quality and high level accuracy to the low cost pump market.

Features & Benefits:
- Track every litre of fuel or fluid dispensed with the Sapphire Lite terminal, the next generation of entry level Fuel Management terminals, utilising Contactless technology for secure and controlled fuelling.
- The Lite solution provides cost effective Fuel Management with vehicle/driver and stock reporting via the secure Connect website. The Connect website is a money saving business tool providing user friendly reporting and reconciliation. Access Connect from any web enabled PC, tablet or smartphone eliminating the requirement for software installed on only one PC.
- Unlimited users have access to the Connect website and complete control of who can access and modify transaction and stock data.

Pump Specification:
- Heavy duty, wall mounted box pump;
- Available in 60, 80 or 100 L/min flow rates;
- Lockable enclosure;
- High specification electronic meter with ±1% accuracy;
- 6 digit display;
- Stop/start/override facility;
- Resettable period totaliser;
- Pulsed output;
- Automatic calibration;
- Complete with 4.0m delivery hose and premium auto nozzle;
- Robust die cast aluminium nozzle holster c/w heavy duty micro switch.

Pump Options:
- External emergency stop push button;
- External non-resettable 7 digit totaliser;
- Pedestal mount;
- Low level alarm;
- Resettable batch counter;
- Water and particulate filter.

SAPPHIRE

Security, Savings, Real-time stock control and Reporting

The Sapphire range of terminals is used in bus and transport depots and utilises both card and touchless key technology. The Sapphire terminal can also work in conjunction with the VIB Datalink in cab device range to guarantee kilometre/mileage information for fuel management reporting.

Sapphire Offers:
- Online real time technology;
- Compatible with all major fuel cards;
- Access via magnetic stripe cards, keys, fobs, contactless or wireless devices;
- Landline Broadband, 3G or Wireless connections available;
- Real-time online management of the terminal and all data via a secure website (TSM);
- Compatible with all major pump suppliers.

Benefits:
- 50+ export formats available with automated email & FTP options;
- Automated reporting of transactions and performance reports;
- Automated importing & exporting of on-road fuel card transactions;
- Protection from environmental issues - System highlights if stock levels change without transaction taking place;
- Online stock management with tank gauges linked directly into terminal and TSM website sending email alerts when reorder levels are reached;
- Monitor live transactions against dip readings shown on TSM;
- Extensive Fleet Management Package including MPG, KPL, Co2 reporting.

Seamless integration with our TSM Service:

Sapphire terminals communicate in real-time with the Total Site Manager website (TSM). The complete Fuel Management package, the terminal can be linked to your tank gauge to show complete stock and transaction activity on the same screen in addition to vehicle and Mileage capture and on-road fueling data/fuel card transactions. TSM is accessible from any web enabled PC, tablet or Smart phone. The TSM Alert system can generate emails to notify and highlight stock levels, deliveries, stock re-order levels, fraud/environmental tank issues, vehicle performance changes and new website features.

Sapphire Offers:
- Online real time technology;
- Compatible with all major fuel cards;
- Access via magnetic stripe cards, keys, fobs, contactless or wireless devices;
- Landline Broadband, 3G or Wireless connections available;
- Real-time online management of the terminal and all data via a secure website (TSM);
- Compatible with all major pump suppliers.
SAPPHIRE FLEETFUELLER

Heavy Duty, High Specification pump combined with Sapphire Real-time Reporting.

The Fleetfueller is a commercial duty, high specification fuel pump. It offers exceptional performance and reliability, combined with the Sapphire Real-time Fuel Management system in one secure housing. The Sapphire range of terminals is used in bus and transport depots and utilities both card and touchless key technology. There is a Sapphire terminal to suit all requirements and budgets. No matter what size your business we have a solution to suit your needs.

Fleetfueller Offers:
- All the features of the Sapphire Terminal;
- Heavy duty pump with high-accuracy positive displacement metering and air separation;
- Secure, heavy duty, Zincate steel enclosure with 2-part paintwork;
- Internal water & particle filter;
- 1hp commercial duty motor;
- Emergency stop push button;
- Built-in plinth;
- External totaliser built into steelwork;
- Super-bright 6-digit LCD with blue backlight;

Seamless integration with our TSM Service:

Sapphire terminals communicate in real-time with the Total Site Manager website (TSM). The complete Fuel Management package, the terminal can be linked to your tank gauge to show complete stock and transaction activity on the same screen in addition to vehicle and Mileage capture and on-road fuelling data/ fuel card transactions.

TSM is accessible from any web enabled PC, tablet or Smart phone. The TSM Alert system can generate emails to notify and highlight stock levels, deliveries, stock re-order levels, fraud/environmental tank issues, vehicle performance changes and new website features.

OEM USE

PIUSI CUBE 70 MC

- Diesel fuel dispenser with integrated electronic fluids management system for commercial use;
- Available in 12V / 24V / 120V and 230V options;
- NOTE additional software / key kit required code FMS-F1414400A;
- Will record date, time and volume of dispensing operation, vehicle registration number and equipment odometer / engine hour reading;
- Sturdy structure designed for different applications: can be fixed to walls, tanks, cisterns, drums, special pedestals;
- Self-priming vane pump fitted with bypass, installed on anti-vibration supports. Mechanical seal. Induction motor fitted with thermal overload protection;
- Automatic nozzle with swivel connection. Integrated nozzle holder;
- Intake mesh strainer;
- Fitted with oval gear meters and an electronic unit for multiuser control and preselected dispensing;
- Local memory capable of storing data for last 255 operations;
- Interfaces with PC for sending and organising data via additional software kit code FMS-F1414400A.

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<tr>
<th>Code</th>
<th>Description</th>
<th>Pump</th>
<th>Flow rate lpm</th>
<th>Voltage</th>
<th>Max Amp.</th>
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</tbody>
</table>

PIUSI ACCESS 85

- Electronic unit for the smart control of the withdrawal of fuel from tanks by numerous users. 230V and 120V power options;
- Controls – 1. pump start and stop | 2. user access by means of an electronic key | 3. dispensing time;
- Integrated emergency stop button;

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Voltage</th>
<th>Max Amp.</th>
<th>User key</th>
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ELECTRONIC FLUIDS MANAGEMENT

OWN USE

66

67
PIUSI MC BOX

- Commercial Electronic Fluid Management System;
- Will record date, time and volume of dispensing operation, vehicle registration number and equipment odometer/engine hour reading;
- Dispensing authorisation controlled by an Electronic Key or Personal Identification Number;
- Controls up to 120 users;
- Local memory capable of storing data for last 255 operations;
- Export data to PC by means of direct cable connection or memory key;
- MC BOX permits:
  1. Pump/Dispensing authorisation;
  2. Identification of authorised users;
  3. Pre-selection of dispensed quantity;
  4. Management of pulse meter to measure liquids dispensed;
  5. Management of an external switch to switch off pump at minimum level;
- 6. Management of micro switch connected to nozzle support;
- 7. Connection to an external printer if required;
- Dedicated software for further management and reporting of fluids management information;
- Software can manage up to 16 dispensing points;
- Weather proof robust unit with large display and keypad/key reader.

**Code** | **Description** | **Users** | **Meter** | **AC VA** | **DC VA** | **Max Amp** | **Package** |
---|---|---|---|---|---|---|---|
F0057201A | MC BOX complete | 60 | 120/60 | 1,5 | 6,5 | 9 | 400x290x200 |
F1398000B | MC BOX (any fluids) | 80 | - | 120/60 | - | 5 | 400x290x200 |
F1398002A | MC BOX (any fluids) 12V | 120 | - | 280/50 | - | 6,5 | 5 | 400x290x200 |
F1398006A | MC BOX (any fluids) 24V | 120 | - | 280/50 | - | 6,5 | 5 | 400x290x200 |
F1398000B | MC BOX 24V | 120 | - | 280/50 | - | 6,5 | 5 | 400x290x200 |
F1398001A | MC BOX 12V | 120 | - | - | 12 | 50 | 6 | 400x290x200 |
F1398002A | MC BOX 12V | 120 | - | - | 12 | 50 | 6 | 400x290x200 |

*Complete with: CD rom with software, 10 button user key, 1 button manager key, USB plug button key reader for PC.*

**Accessories**
- Kit key with USB plug
  - Code F1414400A
  - Composed by:
    - 1 Manager red key
    - + 10 User yellow key
    - + Key reader to transfer data to PC + CD with PC Software.

**Language**
- Code | Language
  - F1409200A | Code
  - F1409200A | Dutch
  - F1360700A | English
  - F1360700A | Italian
  - F1389800A | Norwegian
  - F1399600A | French
  - F1399600A | Portuguese
  - F1399600A | Russian
  - F1399600A | Slovakian
  - F1399600A | Spanish
  - F1399600A | Swedish
  - F1399600A | Turkish
  - F1399600A | Dutch/Flemish

**Manager Key Red**
- Code R1249600
- 100 User key

**User Key**
- Code R13040000
- 10 User yellow key

**PC Interface**
- Code F12710000C
- Composed by:
  - 1 USB converter
  - + CD with Software to install on PC

PIUSI SELF SERVICE 100 MC - PRODUCT CODE: F0074101B

- 90pm diesel fuel dispenser with integrated electronic fluids management system for commercial use;
- Available in 120V and 230V options;
- NOTE: additional software/key kit required code FMS-F1414400A;
- Will record date, time and volume of dispensing operation, vehicle registration number and equipment odometer/engine hour reading;
- Maximum of 80 users;
- Supplied c.w 4m x 25mm ID hose and automatic shut off nozzle;
- Integrated water removal filter assembly;
- Data exported via I button/USB connectivity to office PC;
- NOTE: shorter tank version available PRODUCT CODE: F0074180B.

PIUSI SELF SERVICE 100 FM - PRODUCT CODE: F0074200B

- 90pm diesel fuel dispenser with integrated electronic fluids management system for commercial use;
- Available in 120V and 230V options;
- Integrated OCIO tank gauging module;
- Integrated receipt printer;
- NOTE: additional software/key kit required code FMS-F1414400A;
- Will record date, time and volume of dispensing operation, vehicle registration number and equipment odometer/engine hour reading;
- Maximum of 120 users;
- Supplied c.w 4m x 25mm ID hose and automatic shut off nozzle;
- Integrated water removal filter assembly;
- Data exported via I button/USB connectivity to office PC;
- NOTE: shorter tank version available PRODUCT CODE: F0074280B.

PIUSI SELF SERVICE DESK - PRODUCT CODE: F1414400A

- Kit comprising:
  - 1 x red manager key;
  - 10 x yellow user keys;
  - Key reader USB adaptor for data transfer to your PC;
  - Self service desk software package;
- Software can be used with all Piusi products equipped with PC data interfaces;
- The software manages dispensing data for analysis and various output options for further integration in your business accounting systems;
- Data can be sent direct to a PC via cable (see PC Interface) or via an electronic key with memory and a key reader for connecting to PC (see key).
The Piusi MC Box Lite fuel management system combines some of the well-known Piusi MC Box system functions with the simplicity of the Access 85. Like the standard MC Box, the MC Box Lite fuel management systems limits fuel access to authorised users by means of electronic user key or pin code.

- Can be easily retrofitted to an existing fuel transfer pump system, making it a simple and cost-effective fuel management solution;
- C/w 4 user keys and 1 manager key already configured;
- Can program up to 20 individual users;
- Pre-selection of dispensed quantity function;
- Stores total consumption;
- Records individual user consumption;
- Identifies authorised users by electronic key or pin code;
- Pump on/off control;
- Weatherproof enclosure with display cover.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Users</th>
<th>AC V./Hz</th>
<th>Voltage</th>
<th>Watt</th>
<th>Amp. max. (load motor)</th>
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<tr>
<td>F13981000</td>
<td>MC BOX LITE</td>
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<td>230/50</td>
<td>35</td>
<td>6.5</td>
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</table>

**PW-LAN, PW-WiFi and PWStation-WiFi**

PW-LAN is a new solution that makes it possible to connect several different Piusi products to a LAN network. PW-LAN is an advanced device with several different methods of converting an RS485 signal into an Ethernet signal by means of a simple and intuitive interface.

- Instant conversion of an RS485 signal to Ethernet;
- IP fallback function;
- Compatibility with all DCHP servers;
- 100% compatibility with all Piusi software applications.

**PW-WiFi** is composed of two different devices:

1. an electronic card that converts an RS485 into an Ethernet signal
2. a WiFi module/antenna that makes it possible to connect the LAN card to an existing WiFi network.

- Instant conversion of an RS485 signal to WiFi
- IP fallback function
- Compatibility with all DCHP servers
- 100% compatibility with all Piusi software applications.

Piusi proposes the PWStation-WiFi device, which makes it possible to create a WiFi network, if otherwise unavailable. The device is an access point that is compatible with all commercially available routers.

- Create a WiFi network
- Increase the signal coverage using several PWStation-WiFi devices.

**PRODUCT’S RANGE - Technical Data**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Device</th>
<th>Included Software</th>
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<tbody>
<tr>
<td>F12710050</td>
<td>Kit PW-LAN Self Service Desk</td>
<td>PW-LAN</td>
<td>Self Service Desk</td>
</tr>
<tr>
<td>F12710040</td>
<td>Kit PW-LAN Self Service Desk</td>
<td>PW-WiFi</td>
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<tr>
<td>F12710000</td>
<td>PWStation-WiFi</td>
<td>PWStation-WiFi</td>
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</tr>
<tr>
<td>F12710100</td>
<td>Kit PW-LAN PC Interface Software MED-OFO</td>
<td>PW-LAN</td>
<td>PC Interface Software MED-OFO</td>
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<tr>
<td>F12710110</td>
<td>Kit PW-WiFi PC Interface Software MED-OFO</td>
<td>PW-WiFi</td>
<td>PC Interface Software MED-OFO</td>
</tr>
</tbody>
</table>
**ELECTRONIC FLUIDS MANAGEMENT**

**OWN USE**

**PIUSI SELF SERVICE MANAGEMENT 2.0 (SSM)**

Now you can choose to know everything and manage better. **IN LESS TIME.**

1. **PLUG AND PLAY ADMINISTRATIVE SYSTEM**
   - Setting up the system has never been so easy. Simply connect the devices to your LAN or Wi-Fi network and click on the “Detect System” button using your PC.
   - Plug-and-play setup.
   - Real-time monitoring of the operation of each device.
   - Ability to set the device parameters directly with your PC.
   - Perfect compatibility with the PIUSI 2.0 range: delivery devices;
   - with advanced features and OGIO 2.0 model level gauges.

2. **SUPERVISE YOUR TANKS**
   - Each of the system’s tanks is equipped with an OGIO 2.0 level gauge which allows you to monitor the amount of fluid being dispensed to each tank.
   - Continuous real-time monitoring.
   - Intuitive interface to have everything under control, hassle-free;
   - Advanced reporting with various customization parameters;
   - Ability to export data in .xls or .csv file format for further processing by the user.

3. **MONITOR YOUR USERS**
   - Access to the devices is always under control. Even if you have many drivers, managing them is easy thanks to the new software.
   - Quick search, selection filters and different display modes are also available.
   - Controlled access;
   - Ability to see anomalous driver behavior immediately;
   - Ability to suspend or limit delivery for certain users;
   - Consumption alarms.

**SSM 2.0 VERSIONS**

Self Service Management 2.0 is available in a wide range of versions developed for your needs. From small systems up to the biggest, the software is optimised to give you the perfect answer when you are looking for high performance and maximum usability.

**PIUSI SELF SYSTEM MC 2.0 • PRODUCT CODE: F00743020-CATA**

The MC 2.0 Self Service non-commercial diesel fuel dispenser is designed and built for compatibility with the new Self Service Management 2.0 software. After connecting the dispenser via LAN or Wi-Fi to the 2.0 software, it can be configured directly from a PC: set the parameters, enable the user keys and vehicle keys having access to the dispenser, and constantly receive and transmit data for the generation of reports.

- **Sturdy metal structure;**
- **Front door for easy maintenance;**
- **High displacement vane pump;**
- **Automatic nozzle with swivel fitting;**
- **Built-in water absorbing and contaminants filter;**
- **Oval gear electronic flow meter;**
- **Flow rate up to 90 l/min;**
- **Accuracy: +/- 0.5%;**
- **Continuous AC operation;**
- **Noise level below 75 dB;**
- **IP55 Protection;**
- **LAN adapter;**
- **Printer supplied as standard;**
- **LAN data transmission incorporated in the local electronics;**
- **Requires the use of Self Service Management 2.0 software.**

Non-commercial diesel fuel dispenser with full optionals, designed for users who insist on the best and accept no compromises. Access to fuel delivery with user key and vehicle key to keep a record of the person who refueled the vehicle and the vehicle in question, all summarized in a detailed report. No more need to physically attend the dispenser for configuration procedures, simply perform the task from the comfort of your office. Local memory of last 500 events.

- **Study metal structure;**
- **Front door for easy maintenance;**
- **High displacement vane pump;**
- **Automatic nozzle with swivel fitting;**
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- **LAN data transmission incorporated in the local electronics;**
- **Ability to suspend or limit delivery for certain users;**
- **Consumption alarms.**

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- **Controlled access;**
- **Ability to see anomalous driver behavior immediately;**
- **Ability to suspend or limit delivery for certain users;**
- **Consumption alarms.**

PIUSI SELF SYSTEM FM 2.0 • PRODUCT CODE: F00743010-CATA

We provide truly powerful analysis and reporting tools for you. Different types of charts and customizable time intervals can help you read the consumption of every vehicle, every driver or category.

- **Reports available for tanks, types of fluids, drivers or category;**
- **Fast data processing;**
- **Ability to export data in .xls or .csv file format for further analysis with spreadsheets;**
- **Continuous real-time monitoring;**
- **Simplified visual interface with vehicle icons;**
- **Abnormal consumption alarms;**
- **Highly customizable advanced reporting.**

**TAKE A LOOK AT YOUR DASHBOARD**

We have created a dashboard in order to optimise everyday use of all the software tools.

- **What is it?**
- **A dashboard that welcomes you with the most important data that is clear and easily read;**
- **Modular interface with a selection of features;**
- **A single screen shows the key alarm and consumption data;**
- **Ability to interface directly with PIUSI;**
- **Customizable configuration parameters.**

**PROCESS YOUR REPORTS**

- **Report generation:**
- **Real-time monitoring of the operation of each device;**
- **Ability to suspend or limit delivery for certain users;**
- **Consumption alarms.**

**MANAGE YOUR VEHICLES**

How much diesel fuel has that truck consumed this year?

- **How often do you fill up your car?**
- **Is consumption abnormal or in line with forecasts?**
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**PROCESS YOUR REPORTS**

- **Report generation:**
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- **Ability to suspend or limit delivery for certain users;**
- **Consumption alarms.**
PW-WiFi 2.0 is Piusi’s solution to connect the LAN card of 2.0 range products to a WiFi access point, by means of a simple configuration procedure, PW-WiFi 2.0 allows dialogue between the 2.0 dispenser and 2.0 software in the case of difficult LAN connection.

PW-WiFi 2.0 also provides:
- IP Fallback function;
- Compatibility with all DHCP servers.

Piusi proposes the PWStation-WiFi device, which makes it possible to create a WiFi network, if otherwise unavailable. The device is an access point that is compatible with all commercially available routers.

PWStation-WiFi provides the facility to:
- Create a WiFi network;
- Increase the signal coverage using several PWStation-WiFi devices.

Cube 70 MC 2.0 is equipped with a LAN connection as standard to allow constant dialogue with the software, receive configuration mode data from a remote location and transmit fuel delivery reports. The Cube 70 MC 2.0 can be installed directly on the tank, on a wall or on a pedestal and is the ideal product for those seeking practicality and the maximum safety in diesel fuel dispensing procedures.

- High displacement self-priming vane pump;
- Automatic nozzle with swivel fitting;
- Integrated nozzle holder with pump start/stop lever;
- Pump suction mesh strainer;
- Oval gear electronic flow meter;
- Flow rate up to 90 l/min;
- Accuracy: +/- 0.5 %;
- Continuous AC operation;
- Noise level below 75 dB;
- IP55 Protection;
- LAN adapter.

MC BOX 2.0 is designed for owners of a non-commercial diesel fuel distribution plant but it is not equipped with the facility to monitor users and fuel dispensing. The device consists of an electronic panel to which the system pump can be connected, an electronic flow meter, a nozzle contact and an external printer.

MC BOX 2.0 also offers the facility to monitor tank fuel level by means of OCIO 2.0 MC BOX 2.0 is equipped with a dual display, keypad and i-Button key reader; it allows two-way dialogue with a PC via the standard LAN connection, which not only makes it possible to receive data but also to change the configuration from a remote location, conveniently and accurately.

- Access control;
- Pump start;
- Pre-selection;
- Management of a Pulser flow meter;
- Management of an external level switch for pump off in minimum level conditions;
- Management of microswitch connected to nozzle holder;
- External printer connection.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>AC, V/Hz</th>
<th>Voltage</th>
<th>Amp. max.</th>
<th>Weight</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>F00597010-CATA</td>
<td>PIUSI MC 2.0.240V MC BOX LAN Connection</td>
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<td>F00597020-CATA</td>
<td>PIUSI MC 2.0.240V/MC BOX WiFi Connection</td>
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<td>6.5</td>
<td>5 kg</td>
<td>480 x 370 x 265 mm</td>
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</table>
**PIUSI MCO 2.0**

**CONNECTED TO YOUR GARAGE NETWORK**

PIUSI MCO 2.0 arises from the need to organize your work within your workshop. Starting right from your desk. From your office work station MCO 2.0 Software allows you to enter, display and manage work orders for the entire garage, checking stats of completion and deadlines. Thanks to the weekly agenda function, all it takes is a glance.

MCO 2.0 is a server based system. This means that different people and multiple terminals can manage the organisation, while remaining constantly synchronised.

**Software MCO 2.0**

The MCO 2.0 application is available in different versions to match individual requirements. In addition, you can choose to receive the software on a USB memory stick or WEB Download Version.

PIUSI MCO 2.0 combines all Dispensing Hardware into a single system to allow them to intercommunicate freely. Each device, dispenser, or flow meter communicates its status to a Wi-Fi Network. PIUSI MCO 2.0 is a technology revolution that will deliver better efficiencies to your Workshop.

**Control Units**

Thanks to static and mobile Control Units 2.0, you’ll have the updated list of pending jobs and their state of completion readily at hand at any time. You can choose which work order to start, which process to perform and which jobs to complete. Thanks to the new GPV 2.0 and the new Easy-view nozzle you can check the quantity of fluid you’re dispensing in real time. The system automatically records all completed operations.

**Easy View Nozzle**

Easy view is a more practical and more intelligent nozzle. The large size display shows the dispensing data transmitted on a wireless connection (zigbee) from the associated GPV 2.0. This means the nozzle no longer needs an internal flow meter, resulting in a significant weight reduction and less risk of damage.

**MINIMUM SYSTEM REQUIREMENTS**

- Up to 100 devices connected to the wi-fi network
- Video resolution: 1280x728 or more
- CPU: Core i3-3110m or more
- RAM: 4 GB or more
- Installation includes sql 2008 express

**ACCESSORIES**

- GPV Device MCO 2.0
  - Code: F00446030
  - Description: GPV 2.0 - Single Valve - Windscreen
  - Voltage: 100 - 240 V / 50 - 60 Hz
  - Flow Rate: 30 l/m
  - Power: 17 Watt
- Code: F00446040
  - Description: GPV 2.0 - Single Valve - Remote
  - Voltage: 100 - 240 V / 50 - 60 Hz
  - Flow Rate: 30 l/m
  - Power: 17 Watt

- Dongle and Monitor/TV
  - PIUSI Dongle 2.0 is a remote Wi-Fi device that allows simple connection to a normal monitor or TV in order to show all current garage activities in real time. PIUSI Dongle 2.0 allows you to keep the progress of the entire garage constantly under control. Connect a PIUSI Dongle 2.0 to a normal monitor for constant display of data from all the devices in the MCO 2.0 system. In real time and with absolute clarity. You can also monitor the progress of the work agenda checking completed orders and pending consignments. Pick up on any late tasks immediately.

**Monitor Tanks**

Want to avoid running out of fluid? The tank section allows you to monitor the available fluid levels, consumption quantities and fluids to be reordered, which highlighting any anomalies. There are no surprises when you use MCO 2.0.

**SOFTWARE MCO 2.0**

- Code: F00774000
  - Description: MCO 2.0 Client Software
  - USB Code Description: Software MCO 2.0
- Code: F00774210
  - Description: MCO 2.0 Business Entry Software (Web Edition)
- Code: F00774220
  - Description: MCO 2.0 Business Suite Software (Web Edition)

**EASY VIEW NOZZLE MCO 2.0**

- Code: F00779000
  - Description: Easyview • Flexible Oil up to 30 l/m Zigbee (to GPV) 1/2’’ BSP
- Code: F00779010
  - Description: Easyview • Rigid Oil up to 30 l/m Zigbee (to GPV) 1/2’’ BSP

**CONTROL UNIT MCO 2.0**

- Code: F00776000
  - Description: Control Unit 2.0 100 - 240 V / 50 - 60 Hz Wi-Fi
- Code: F00776010
  - Description: Control Unit Mobile 2.0 100 - 240 V / 50 - 60 Hz Wi-Fi

**CONNECTIONS**

- Code: F2002100A
  - Description: Ticket Printer Wi-Fi MCO 2.0 Wi-Fi
- Code: F20089000
  - Description: Barcode Reader Usb MCO 2.0 USB
- Code: F00774210
  - Description: MCO 2.0 Business Entry Software (Web Edition)
- Code: F00774220
  - Description: MCO 2.0 Business Suite Software (Web Edition)

**PIUSI MCO 2.0**
• Designed for bulk fluid transfer and fueling rack filtration;
• Housings and replacement elements are compatible with gasoline, ethanol blends up to E15, biodiesel blends up to B100, diesel fuel, ultra-low sulfur diesel (ULSD), and fuel oils;
• Able to filter industrial fluids such as lubrication, hydraulic, synthetic oils, many solvents and thinners;
• Removes common contaminants such as dirt, dust, and rust;
• Increased filtering capacity;
• Easy opening and access with swing lid;
• Up to 500 gpm / 1892.7 lpm maximum flow;
• 150 psi rating;
• Epoxy coating inside and out;
• Carbon steel housing;
• Gauge ports standard.

Code | Model | In / Out | Diameter | Length | GPM | # of Elements
--- | --- | --- | --- | --- | --- | ---
40186 | Viking 1 | 2" NPT | 12" | 32 7/8” | 120 | 1
40187 | Viking 1 Flanged | 12” | 32 7/8” | 120 | 1
40188 | Viking 2 | 2” NPT | 12" | 50 7/8” | 100 | 2
40189 | Viking 2 Flanged | 12” | 50 7/8” | 100 | 2
40190 | Viking 3 Flanged | 24” | 99 7/8” | 300 | 4
40191 | Viking 3 Flanged | 28” | 78 7/8” | 500 | 8

CODE | MODEL | IN / OUT | DIAMETER | LENGTH | GPM | # OF ELEMENTS
--- | --- | --- | --- | --- | --- | ---
3006 | E-1300-02 | Cellulose | 2
3008 | E-1300-02 | Cellulose | 10
3007 | E-1300-30 | Cellulose | 30
3004 | E-1100MG-03 | Microglass | 3
3002 | E-1100MG-05 | Microglass | 5
3001 | E-1100MG-10 | Microglass | 10
3004 | E-1100MG-03 | Microglass | 30
30210 | E-1300WM-144 | Wire Mesh | 144

VIKING BULK FILTRATION

• Designed for high-volume applications;
• Housings and replacement elements are compatible with gasoline, diesel, ethanol blends up to 15%, biodiesel up to B20, and ultra-low sulfur diesel (ULSD);
• Elements available in 2, 10 and 30 micron cellulose for particulate removal;
• Elements available in 10 and 30 micron Hydrosorb® for water detection and particulate removal;
• Extended equipment life;
• Assures delivery of quality fuel;
• Cleaner change-out with drain design;
• Eco-friendly reusable housing;
• Up to 340 lpm maximum flow;
• Parallel flow.

Code | Model | In / Out | Diameter | Length | GPM | # of Elements
--- | --- | --- | --- | --- | --- | ---
30001 | Centurion Single | 1” NPT | 113 | 1
30013 | Centurion Double | 1 1/2” NPT | 227 | 2
30002 | Centurion Triple | 2” NPT | 340 | 3

CENTURION COMMERCIAL FILTRATION

6” x 18” Elements | Element Type | Micron
--- | --- | ---
30007 | E-1300-30 | Cellulose | 2
30008 | E-1300-30 | Cellulose | 10
30009 | E-1300-30 | Cellulose | 30
30015 | E-1100MG-03 | Microglass | 3
30016 | E-1100MG-05 | Microglass | 5
30017 | E-1100MG-10 | Microglass | 10
30018 | E-1100MG-30 | Microglass | 30
30021 | E-1100MG-144 | Wire Mesh | 144

ISO 14/13/11
Target rating for diesel fuel

ISO 16/14/11
Target rating for hydraulic/ transmission oils

ISO 18/16/13
Target rating for heavy gear/engine oils

DONALDSON FILTRATION

DIESEL IS DIRTY.
As diesel travels from refinery to terminal locations to local bulk storage and finally to your bulk tank, it picks up contamination that is deadly to today’s engines.

DIRT IS BAD.
Your local distributor likely delivers diesel that meets or exceeds fuel-industry standards for cleanliness. This may not be clean enough for your equipment.

REMOVE THE DIRT. ACHIEVE MORE.
By filtering out dirt, water and other contaminants before your fuel ever touches your equipment, you’ll minimise costly downtime, Keep Running and Achieve More.

DONALDSON DELIVERS

WATER PROTECTION
Are your bulk fluids passing large amounts of free water downstream – contaminating vehicles and equipment?
Donaldson’s water absorbing filter with super absorbent polymer media, DBB0248, will stop flow if large amounts of free water are detected in your ethanol-free fluids. Designing systems with water absorbing filters requires careful sizing considerations. A specialist will assist in configuring a system that meets your specific needs for flow and pressure drop.

ACHIEVING THE TARGET CLEANLINESS OF A FLUID
ISO 4406 contamination codes are a way to express fluid cleanliness. The three numbers correspond to the number of particles 4 microns and larger, 6 microns and larger, and 14 microns and larger present in the fluid. This illustrates what it means to start with a contamination of ISO 22/21/18 and target a cleanliness of ISO 14/13/11.

RECOMMENDED ISO CLEANLINESS RATINGS:
Donaldson Clean & Dry Diesel Kits provide simple, effective outlet filtration on fuel dispensers to allow you to pump clean fuel into your vehicles and equipment.

These kits are easy to install on any fuel dispenser and come with everything needed to filter out even the finest contaminants before they can enter your equipment’s fuel system. With the included easy-to-follow, step-by-step instructions, you'll have effective, efficient filtration in minutes.

**It's That Easy - Grab a Kit!**

**KIT NO.1 - UP TO 189 LPM**
The Clean and Dry Diesel Kit uses two high performance filters in series.

*Product code: FILTER-P506073-CATA*  
For flow rates up to 50 GPM / 189 LPM

**KIT NO.2 - UP TO 375 LPM**
The Dual Head Clean and Dry Kit uses two high performance filter sets in series.

*Product code: FILTER-X900018-CATA*  
For flow rates up to 100 GPM / 375 LPM

Donaldson Clean Solutions filter heads feature robust, aluminum construction with steel inserts to minimize metal-to-metal galling between the head and the filter, even when used with diesel fuel.

The threaded insert contains an O-ring seal to completely seal the clean side of the filter from the dirty side for maximum protection.

Viton® seals are compatible with a wide range of fluids and maintain their integrity in cold weather. For maximum cleanliness, use Clean Solutions filter heads with Clean Solutions filters.

Viton® is a registered trademark of E.I. DuPont de Nemours and Company.

**FEATURES**
- Steel inserts are safe to use with diesel fuel;
- Threads contain an O-ring to completely seal the clean side from the dirty side of the filter;
- Heats are pre-ported for optional pressure gauges and service indicators.

**APPLICATIONS**
- For use with Clean Solutions filters;
- Compatible with all diesel fuels and lubricants.

---

**PARTS**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Single Filter Head</th>
<th>Single Filter Head 11/4” NPTF</th>
<th>Dual Filter Head</th>
<th>Dual Filter Head 50psi Bypass Valve</th>
</tr>
</thead>
<tbody>
<tr>
<td>P570129</td>
<td></td>
<td></td>
<td>P56483</td>
<td>P574958</td>
</tr>
<tr>
<td>P570330</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P568583</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P574958</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Connection**
- SAE-20 O-ring 11/4” NPTF 11/2” SAE 4-Bolt Code 61 Flange 11/2” SAE 4-Bolt Code 61 Flange

**Filter Quantity**
- 1 1 2 2

**Max. Flow Range**
- 60 gpm / 246 lpm 125 gpm / 473 lpm

**Fluid Compatibility**
- All diesel fuels and lubricants

**Working Pressure**
- 350 psi / 2413 kPa / 24.1 bar

**Rated Static Burst**
- 800 psi / 5516 kPa / 55.2 bar

**Operating Temperature**
- -40 to 245 °F / -40 to 118 °C

**Indicator Port**
- Use to adapt pressure gauges or sampling ports (sold separately)

**Materials**
- Aluminum head with threaded steel inserts and Viton® seals

**Compatible Filters**
- DBB8664, DBB8666, DBB8668, DBB8333, DBB0248, DBB7777, DBB7773

*Filters sold separately  **Actual flow rate varies based on fluid viscosity, pumping pressure and filter loading.
**Donaldson Clean Solutions Filter Manifolds**

Expand capacity or increase flow rate beyond the capability of a single or dual filter head. Two or more manifolds can be plumbed together to accommodate even larger flow rates.

Manifolds split flow evenly between the individual filters. Fluid passes through only one of the filters on its way across the manifold.

Dividing the flow between multiple filters plumbed in parallel reduces the pressure drop through each filter.

The combination of Clean Solutions manifolds and filters ensure that your equipment receives the cleanest possible fuel and oil.

**Features**
- Fast, easy and safe to service
- Requires no electrical or air hook-ups
- Large capacity in small footprint
- Flexible mounting options (horizontal or vertical)
- Cost effective high capacity system

**Applications**
- Bulk fuel and lubricant filtration and water removal
- High flow transfer into or out of tanks and dispensing equipment
- Hard-to-filter high viscosity oils
- Inline industrial filtration of gear oils and lubricants
- Kidney loop applications

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Filter Quantity</th>
<th>Mounting Connection</th>
<th>Max. Flow Range</th>
<th>Shipping Weight</th>
<th>Pressure Gauges</th>
<th>Sampling</th>
<th>Fluid Compatibility</th>
<th>Working Pressure</th>
<th>Construction</th>
<th>Compatible Filters</th>
<th>Operating Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Filter</td>
<td>P561880</td>
<td>4</td>
<td>2&quot; ANSI 150 Flange</td>
<td>250 gpm / 946 lpm</td>
<td>140 lbs / 64 kg</td>
<td>2 pcs 0-160 psi / 0-11 bar gauges included</td>
<td>Includes up-stream and down-stream mini-mess sampling ports with M16 x 2 thread</td>
<td>Diesel fuels and lubricants</td>
<td>152 psi / 1035 kPa / 10.5 bar</td>
<td>Painted carbon steel pipe with aluminum heads</td>
<td>DBB1664, DBB1665, DBB1666, DBB1677, DBB0248</td>
<td></td>
</tr>
<tr>
<td>8 Filter</td>
<td>P568932</td>
<td>8</td>
<td>4&quot; ANSI 150 Flange</td>
<td>500 gpm / 1893 lpm</td>
<td>310 lbs / 141 kg</td>
<td>Accessory Sold Separately</td>
<td></td>
<td></td>
<td></td>
<td>No external aluminum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 Filter</td>
<td>P568933</td>
<td>10</td>
<td>600 gpm / 2271 lpm</td>
<td>390 lbs / 177 kg</td>
<td>128 lbs / 58 kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inline 12</td>
<td>DFF1012</td>
<td>up to 12</td>
<td>700 gpm / 2650 lpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Inline 8 Manifolds are available upon request.
**Filters sold separately.
***Actual flow rate varies based on fluid viscosity, pumping pressure and filter loading.

**Filtration Equipment**

**DONALDSON FILTER HEADS**

- Single Filter Head
- Dual Filter Head

**DONALDSON MANIFOLDS**

- 4 Filter Manifold
- 8 Filter Manifold
- 10 Filter Manifold
- Inline 12 Manifold

**CLEAN SOLUTIONS FILTER MANIFOLDS**

Expand capacity or increase flow rate beyond the capability of a single or dual filter head. Two or more manifolds can be plumbed together to accommodate even larger flow rates.

Manifolds split flow evenly between the individual filters. Fluid passes through only one of the filters on its way across the manifold.

Dividing the flow between multiple filters plumbed in parallel reduces the pressure drop through each filter.

The combination of Clean Solutions manifolds and filters ensure that your equipment receives the cleanest possible fuel and oil.

**Features**
- Fast, easy and safe to service
- Requires no electrical or air hook-ups
- Large capacity in small footprint
- Flexible mounting options (horizontal or vertical)
- Cost effective high capacity system

**Applications**
- Bulk fuel and lubricant filtration and water removal
- High flow transfer into or out of tanks and dispensing equipment
- Hard-to-filter high viscosity oils
- Inline industrial filtration of gear oils and lubricants
- Kidney loop applications
**DONALDSON MANIFOLDS**

4 Filter Manifold
P561880

8 Filter Manifold
P568932

10 Filter Manifold
P568933

Inline 12 Manifold
DFF1012

---

**Filtration Equipment**

Manifold Pressure Drop

<table>
<thead>
<tr>
<th>Flow Rate [LPM]</th>
<th>Pressure Drop [PSI]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>5</td>
</tr>
<tr>
<td>1500</td>
<td>8</td>
</tr>
<tr>
<td>2000</td>
<td>12</td>
</tr>
<tr>
<td>2500</td>
<td>16</td>
</tr>
</tbody>
</table>

---

**DONALDSON FILTER ELEMENTS**

- **Part Number**
  - DBB5333
  - DBB7733
  - DBB8666
  - DBB8777
  - DBB8665
  - DBB8664
  - DBB0248

- **Target ISO Cleanliness**
  - 14/13/11 or better
  - 16/14/11
  - 14/13/11 or better
  - 16/14/11
  - 16/14/11
  - Not Applicable

- **Micron Rating & Efficiency**
  - 4 micron @ Beta 2000
  - 7 micron @ Beta 2000
  - 4 micron @ Beta 2000
  - 7 micron @ Beta 2000
  - 25 micron @ Beta 2000

- **Fluid Compatibility**
  - All diesel fuels
  - Transmission and hydraulic oil
  - Engine and gear oil
  - Ethanol-free fluids

- **Recommended Viscosity Range**
  - <100 cSt
  - <500 cSt
  - <800 cSt
  - <1500 cSt

- **Working Pressure**
  - 350 psi / 2413 kPa / 24.1 bar

- **Element Collapse Pressure**
  - 150 psi / 1034 kPa / 10.3 bar

- **Rated Static Burst**
  - 800 psi / 5516 kPa / 55.2 bar

- **Max. Flow Range**
  - Compact Fuel Filter: 32 gpm / 121 lpm
  - Compact Fuel Filter: 65 gpm / 246 lpm
  - Fuel Filter: 45 gpm / 246 lpm

- **D.E.R.T.**
  - Yes
  - No

- **Nominal Dimensions**
  - 5” x 7.5” / 12.7 cm x 19.1 cm
  - 5” x 14.25” / 12.7 cm x 36.2 cm

- **Operating Temperature**
  - -40 to 245 °F / -40 to 118 °C

---

*Select the proper filter by fluid type and OE recommended ISO code. Do not over-filter fluids. Doing so may result in the stripping of beneficial additive.

**Actual flow rate varies based on fluid viscosity, pumping pressure and filter loading.

***DERT™ Donaldson Electrostatic Reduction Technology prevents media damage during high flow fuel applications.
Donaldson provides off-line filtration and fluid transfer capabilities in convenient portable packages. Use them in your workshop, with in-plant machinery, or mobile equipment to achieve and maintain the ISO cleanliness standard of your fluids.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Pu.65/5 Bulk Fuel Service System</th>
<th>Pu.65/5 12V Bulk Fuel Service System</th>
<th>Pu.65/5 Bulk Oil Service System</th>
<th>Pu.65/5 Lite Bulk Oil Service System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replacement Filter Elements</td>
<td>DBB8666 Fuel Filter &amp; DBB8648 Water Absorbing Filter</td>
<td>DBB8664 Oil Filter</td>
<td>Pu.65/583 Bulk HP Filter</td>
<td>Pu.65/581 Bulk HP Filter</td>
</tr>
<tr>
<td>Optional Filter Elements</td>
<td>DBB7777 Fuel Filter &amp; DBB8648 Water Absorbing Filter</td>
<td>DBB8664 Oil Filter &amp; DBB8648 Water Absorbing Filter</td>
<td>Pu.65/584 Bulk HP Filter</td>
<td>Pu.65/585 Bulk HP Filter</td>
</tr>
<tr>
<td>Target ISO Cleanliness</td>
<td>14/13/11 or better</td>
<td>18/16/13 or better</td>
<td>16/14/11</td>
<td>18/16/13 or better</td>
</tr>
<tr>
<td>Fluid Compatibility</td>
<td>All diesel fuels</td>
<td>Hydraulic, gear, transmission and engine oils</td>
<td>Petroleum based oils</td>
<td>Petroleum based oils</td>
</tr>
<tr>
<td>Micron Rating &amp; Efficiency</td>
<td>&lt;4 micron @ Beta 2000</td>
<td>5 micron @ Beta 2000</td>
<td>14 micron @ Beta 2000</td>
<td>14 micron @ Beta 2000</td>
</tr>
<tr>
<td>Water Absorbing Filter</td>
<td>Stops all free and emulsified water (optional for Pu.65/57)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>240 Volt 50 Hz with 2m cable</td>
<td>240 Volt 50 Hz with 2m cable</td>
<td>240 Volt 50 Hz with 2m cable</td>
<td>240 Volt 50 Hz with 2m cable</td>
</tr>
<tr>
<td>Max. Flow Range</td>
<td>63 lpm @ 2800 RPM</td>
<td>17 lpm @ 2900 RPM</td>
<td>40 lpm @ 1450 RPM</td>
<td>6 lpm @ 1450 RPM</td>
</tr>
<tr>
<td>Pump</td>
<td>Vane pump</td>
<td>Vane pump</td>
<td>Gear pump</td>
<td>Gear pump</td>
</tr>
<tr>
<td>Dimensions</td>
<td>H = 1300mm W = 350mm D = 750mm</td>
<td>H = 750mm W = 520mm D = 180mm</td>
<td>H = 1300mm W = 350mm D = 750mm</td>
<td>H = 415mm W = 435mm D = 155mm</td>
</tr>
<tr>
<td>Weight</td>
<td>65 Kgs</td>
<td>34 Kgs</td>
<td>65 Kgs</td>
<td>14 Kgs</td>
</tr>
</tbody>
</table>

Filtering oil prior to dispensing into equipment is critical to meet the ISO cleanliness specifications demanded by today’s OEMs. Donaldson Bulk HP filters provide high efficiency filtration in a single pass.

Service shops use high pressure pumps to force oil through long lengths of piping and hose reels prior to dispensing into equipment. Donaldson Bulk HP filters remove contaminants delivered in oil and picked up in storage or delivery lines during final transfer. They ensure the required ISO cleanliness level is met every time.

**FEATURES**
- Up to 1000 psi / 6894 kPa / 68.9 bar working pressure;
- Extended life filters with high dirt holding capacity;
- Easy disposal with recyclable can and incinerable element;
- Compact design requires only 1.5’ / 38 mm clearance for servicing.

**APPLICATIONS**
- Lube shops;
- Mobile service trucks;
- Other higher pressure single pass applications.
FILTRATION EQUIPMENT

DONALDSON LUBRICANTS FILTRATION

WARNING

THERMAL EXPANSION Donaldson highly advises following the pump manufacturer’s relief recommendations. Pump manufacturers offer relief valves to protect against over pressurisation. A mere 10 °F / 5.5 °C increase in oil temp can add 450 psi / 3103 kPa / 31 bar to the system while the pump is shut off.

DONALDSON T.R.A.P. BREATHER
BULK TANK FILTRATION + MOISTURE PROTECTION

The Thermally Reactive Advanced Protection (T.R.A.P.) Breather assembly protects the fluids in your storage tank from airborne particulate moisture contamination and ambient moisture.

It combines a high capacity 3 micron air filter with a deliquescent breather that regenerates itself when air is expelled from the tank.

This self-regenerating capability of T.R.A.P. enables extended life and functionality.

Keep your fluids clean and dry with a Donaldson T.R.A.P. Breather.

FEATURES

- High efficiency air filtration;
- Longer life and lower airflow restriction than typical silica gel breathers;
- Self-regenerating moisture adsorption;
- Easy to service.

APPLICATIONS

- For use with all diesel fuels and lubricants;
- Above and below ground tanks;
- Mobile service trucks;
- Indoor or outdoor applications;
- Most tanks up to 10,000 gal. / 37,854 litres (large tanks may require multiple units).

### Assembly Part Number

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFF0078</td>
<td>T.R.A.P. Breather</td>
</tr>
</tbody>
</table>

### Efficiency

- 97% efficient @ 3 microns

### Max. Flow Range

- Combined inlet and outlet flow up to 500 lpm maximum

### Overflow Check Valve

- Opens at 2.32 psi / 15 kPa

### Operating Temperature

- -40 to 200 °F / -40 to 93 °C

### Fluid Compatibility

- Safe for use with all fuels and lubricants

### Indicator

- Standard mechanical

### Height

- 16" / 410 mm

### Construction

- ABS housing, Urethane end caps

### Connection

- 1½" BSP female

### Replacement filter

- P923075 spin on
WARNING
Always locate your tank’s name plate and cross-check against the flow chart (above) to ensure safety. Use maximum flow INTO tank for validating pressure rating and flow OUT OF tank for vacuum ratings. DO NOT EXCEED TANK PRESSURE OR VACUUM.

NOTE
Tanks sizes above 10,000 gal. / 37,854 l. may require multiple units and pressure vacuum relief valves.

DONALDSON T.R.A.P. BREATHER
BULK TANK FILTRATION + MOISTURE PROTECTION

FILTRATION EQUIPMENT

PART NO:  Connection (mm)  Air Flow (lpm)  APPLICATIONS

<table>
<thead>
<tr>
<th>LARGE TANKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFF0078</td>
</tr>
<tr>
<td></td>
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<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MEDUIM TANKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>UF-P566151</td>
</tr>
<tr>
<td>UF-P566566</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>MEDUIM / SMALL TANKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>UF-P566637</td>
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</table>

<table>
<thead>
<tr>
<th>SMALL TANKS</th>
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</thead>
<tbody>
<tr>
<td>UF-P566174</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>ANTI-SPASH VALVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>P766645 P766646</td>
</tr>
</tbody>
</table>

• Bulk fuel and lubrication tanks; • Hydraulic reservoirs with large linear actuators; • Large reciprocating lubricated sumps (eg. pumps).

• ‘On farm’ fuel tanks; • Hydraulic reservoirs with linear actuators; • Large industrial gear reducers; • Service truck lube and fuel compartments.

• 205L drums; • Medium industrial gear reducers; • Large mobile equipment gearboxes and differentials; • Hydraulic reservoirs with rotary actuators.

• Small industrial gear reducers; • Linear actuators (pressure-up-spring/gravity return); • Truck and light vehicle gearboxes and differentials; • Ute mounted cranes, tailgate lift devices.

• Minimise leakage in the event of a vigorous tank movement; • Non corrosive construction is sturdy, but lightweight; • 3 high capacity micron particle filters to keep dirt out.
The Donaldson Reservoir Air Dryer eliminates the need to continually replace conventional desiccant breathers, enhancing reservoir breathing systems by continuously purging and dehydrating reservoir headspace.

With no electrical requirements, the Donaldson Reservoir Air Dryer combats ambient ingression of moisture by introducing a steady stream of clean, dry air to the reservoir. This constant airflow helps sustain optimal conditions and prevents the formation of condensation and rust in the reservoir, minimising the potential for particulate and water ingression through reservoir access points.

When combined with a T.R.A.P. Breather, the complete system keeps moisture and contamination out, even if fluid flow rate out of the tank surpasses the Reservoir Air Dryer flow rate into the tank.

**FEATURES**

- The clean, dry air sweep dehydrates the reservoir headspace and removes dissolved moisture from exposed oils and fuels*;
- Operates with standard plant air; instrument quality air is not required;
- Submicron coalescing air filter collects oil and water droplets and fine particles from inlet air;
- Automatic drain purges captured liquid with no intervention required;
- Visual indicator monitors filter condition;
- Membrane air dryer reduces plant air dew point by as much as 150 °F (83 °C);
- Pressure regulator depressurises the air and ensures that the proper flow rate of air is introduced into the reservoir.

**APPLICATIONS**

- Lubricant system reservoirs;
- Diesel storage tanks;
- Oil storage tanks;
- Gear boxes;
- Hydraulic system reservoirs.

**Assembly Part Number**

<table>
<thead>
<tr>
<th>Product Image</th>
<th>Part Number</th>
<th>Description</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P575852</td>
<td>Reservoir Air Dryer</td>
<td></td>
</tr>
<tr>
<td>Efficiency</td>
<td></td>
<td>Reduces dew point as much as 150 °F (83 °C)</td>
<td></td>
</tr>
<tr>
<td>Outlet Flow Volume</td>
<td></td>
<td>0.5 scfm (14.2 dpm) maximum</td>
<td></td>
</tr>
<tr>
<td>Inlet Air required</td>
<td></td>
<td>0.8 scfm (22.7 dpm) maximum</td>
<td></td>
</tr>
<tr>
<td>Pre-Filter Condition</td>
<td></td>
<td>Visual Indicator (Green/Red)</td>
<td></td>
</tr>
<tr>
<td>Pressure Regulator</td>
<td></td>
<td>Dial Gauge</td>
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</tr>
<tr>
<td>Coalescer Drain</td>
<td></td>
<td>Automatic Flow Type</td>
<td></td>
</tr>
<tr>
<td>Max Working Pressure</td>
<td></td>
<td>116 psi (800 kPa / 8.00 bar)</td>
<td></td>
</tr>
<tr>
<td>Max Operating Temperature</td>
<td></td>
<td>125°F (52°C)</td>
<td></td>
</tr>
<tr>
<td>Fluid Compatibility</td>
<td></td>
<td>Petroleum and Phosphate Esters, Diesel Fuels*</td>
<td></td>
</tr>
<tr>
<td>Inlet/Outlet Connection</td>
<td></td>
<td>3/8&quot; - 18 UN Threaded Nut</td>
<td></td>
</tr>
<tr>
<td>Mounting Bracket</td>
<td></td>
<td>3/8&quot; - 16 UN Threaded Nut</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td></td>
<td>&lt;1 lb (0.45 kg)</td>
<td></td>
</tr>
<tr>
<td>Replacement</td>
<td></td>
<td>Coalescing Pre-Filter</td>
<td></td>
</tr>
</tbody>
</table>

*The Reservoir Air Dryer is not recommended for use on gasoline holding tanks or for the head space of any flammable liquid (Flash Point of 100°F / 38°C).
DONALDSON ACCESSORIES

FILTRATION EQUIPMENT

PIUSI FIL TROLL

• Double filter, triple control;
• This filtering unit provides double filtering for oil and diesel fuel and absorbs any water and impurities;
• The unit features a supply and suction pipe with integrated bottom valve.

Features
• Sturdy trolley c/w large diameter wheels;
• Flow rate 56 lpm for diesel / 25lpm for oil filtering capacity;
• first stage 30μ with water absorption;
• second stage 5 μ for particles / impurities.

Optional
• Electronics kit for controlling and automating the following two functions:
  1. determine the filtering time in relation to the quantity to be processed;
  2. switch off automatically in case of filter blockage.

Code Description Flow Rate Pump Hose length (m) Weight Packaging mm Flow Rate Pump Hose length (m) Weight Packaging mm
F00506000 Filtroll Diesel 56 14.8 Panther 56 230 AC 50/60 375 4 3 35 800 x 600 x 500
F00506010 Filtroll Oil/Diesel 25 7 Viscomat 70 230 AC 50 750 3 3 42 800 x 600 x 500
F0050606A Filtroll 12V Diesel 56 14.8 Panther DC 12 DC - 300 4 4 40 800 x 600 x 500

Available in Version 230 V / 60 Hz, 120 V / 60 Hz

PIUSI DEPUROIL

• DEPUROIL is the ideal tool for decontaminating oil by removing suspended particles;
• Flow rate up to 25rpm;
• Fitted with a constantly operating volumetric pump;
• Oil is cleaned by sending it through a high-filtration capacity cartridge filter;
• Manometer for detecting clogged filter;
• Heavy Duty Trolley;
• Noise level under 70 dB;
• Interchangeable cartridge filter with head;
• Supplied with a series of spare cartridges.

Code Description Flow Rate AC Tank Micro Weight Packaging mm
00050300A Depuroil M 230/50 20 ÷ 25 5,28 ÷ 6,6 230/50 900 - - 10 28 670 x 310 x 330
00050302A Depuroil M 100/50 20 ÷ 25 5,28 ÷ 6,6 110/50 120 - - 10 28 670 x 310 x 330
00050301A Depuroil M 120/60 20 ÷ 25 5,28 ÷ 6,6 120/60 1200 - - 10 28 670 x 310 x 330

Available in Version 230 V / 60 Hz, 120 V / 60 Hz

TEST KIT

Product Image Part Number Description Application
X009329 Patch Test Kit Test kit for measuring fluid cleanliness
P567869 0.8 Micron Membrane Filter Spares for Patch Test Kit, purchase in multiples of 100
P567860 Solvent Dispensing Filter Spares for Patch Test Kit, purchase in multiples of 1
P567865 Analysis Cards Spares for Patch Test Kit, purchase in multiples of 50
P567861 120 ml Sample Bottle Spare for Patch Test Kit

SAMPLING TOOLS

Product Image Part Number Description Application
P573414 Upstream Sampling/Indicator Port Adapter For single, dual, heads, and HP heads, SAE-4, use with P563224 for sampling
P573415 Downstream Sampling/Indicator Port Adapter For single, dual, heads, and HP heads, SAE-4, use with P563224 for sampling
P563224 Test Point For use with P573414 and P573415 adapters, SAE-4 to M16 x 2
P563212 Test Point For all Clean Solutions manifolds, 1/8”NPT to M16 x 2
P563215 Test Point For dual/hdvs, 1/4 BSPP to M16 x 2, use with P506071 flange, P506037 ROSS and P506037 Bu.F.S.
P563250 Test Point Hose Assembly, 12” 16.08 series M16 x 2 thread, for use with P563212, P563215 and P563224 mm mini test points
P563255 Test Point Hose Assembly, 1.2200mm 16.08 series M16 x 2 thread, for use with P563212, P563215 and P563224 mm mini test points.
OCIO detects the static pressure generated by the fluid height by means of a tube inserted into the tank and displays the fluid level or volume. The unit is equipped with an intuitive, complete software and permits the connection of two alarm or lock devices. Depending on the set alarm levels, the control unit activates or deactivates the contact by acting as a remote switch for starting the alarms or cutting power to the connected equipment.

The system consists of:
- A tube for detecting static pressure; The tube end is inserted from the top of the tank and lowered down into the liquid until it touches the bottom;
- A control unit for displaying the level and managing the system;
- The unit is equipped with an intuitive, complete software and permits the connection of two alarm or lock devices.

The software is used to set tank type and dimensions, define alarm levels, define indication level, define measurement unit and calibrate the instrument.

Technical information:
- Maximum measurable height: 4 m;
- Probe tube length: 10 m;
- Protection IP 55;
- Full scale 4 m (12 feet);
- Accuracy 1% full scale contact for maximum and minimum level;
- Maximum tension 250 Vac at 5 Amp (or 30Vdc at 5 Amp);
- Probe tube length 10 m (10.6 yards) (extensible up to 50 m (52 yards);
- OPTIONAL: OCIO Desk software and oil kit.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Voltage AC V./Hz Watt</th>
<th>Packaging mm</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>F0075510D</td>
<td>Level indicator OCIO LV / RS output</td>
<td>230/50 20</td>
<td>300x410x100</td>
<td>2,2</td>
</tr>
<tr>
<td>F0075511D</td>
<td>Level indicator OCIO LV / RS output 120V</td>
<td>120/60 20</td>
<td>300x410x100</td>
<td>2,2</td>
</tr>
<tr>
<td>F00755140</td>
<td>OCIO Urea</td>
<td>230/50 20</td>
<td>300x410x100</td>
<td>2,2</td>
</tr>
<tr>
<td>F00755160</td>
<td>Level indicator OCIO LV / 4/20 mA output</td>
<td>230/50 20</td>
<td>300x410x100</td>
<td>2,2</td>
</tr>
</tbody>
</table>

PIUSI OCIO 240V AC ~ PRODUCT CODE: TANKGAUGE-F0075510D-CATA

PIUSI FUEL / LUBRICANTS CARTRIDGE FILTER ~ PRODUCT CODE: FILTER-F0777200A-CATA

FILTER PETRO 70lpm. Clear Bowl ~ PRODUCT CODE: 44390-CATA

Filtration Equipment

Water Removal Replacement Filter Element
PRODUCT CODE: 44397-CATA
- Water. 10um.
- Replacement filter element to suit PETRO 44390 Clear Bowl Filter.
- Suitable for use with Diesel or Petrol.

Particulate Replacement Filter Element
PRODUCT CODE: 44395-CATA
- Particulate. 10um.
- Replacement filter element to suit PETRO 44390 Clear Bowl Filter.
- Suitable for use with Diesel or Petrol.

PETRO Filter Wrench
PRODUCT CODE: 44394-CATA
- Easy to use Filter Wrench for removing Filter Bowl when changing Filter element.
- Weather Resistant reinforced Nylon construction won’t damage the bowl like metal oil filter wrenches.
- Specially designed to fit PETRO 44390 Clear Bowl Filter. It additionally fits filters from several other makers.
- Used to remove filter bowl for filter element replacement.
- Wire through hole provided for attaching to fuel tank.

Fuel level
10um Measured resolution

Fuel volume
20 litres Calculated resolution

Fuel %
Petrol Calculated resolution

Optional: OCIO Desk software and oil kit
PIUSI OCIO 2.0

OCIO 2.0 reads the liquid level in a tank. The device detects the static pressure generated by the liquid level by means of a pipe inserted into the tank and displays the liquid level or volume. OCIO 2.0 is equipped with local electronics and an integrated LAN card to allow constant two-way dialogue with your PC.

By connecting OCIO 2.0 to the Self Service Management 2.0 software, you can:
- Set tank type and dimensions from a remote location;
- Program level alarms;
- Define the unit of measurement;
- Calibrate the instrument;
- Depending on the set alarm levels, OCIO 2.0 can cut-off the power supply to connected equipment.

The new Self Service Management 2.0 software is the most advanced response for management and monitoring of refueling, allowing supervision of drivers, vehicles and fuel tanks;

Setting up the system and getting to work has never been easier: simply connect the devices to your LAN or Wi-Fi network and click on the “Detect System” button on your PC. Self Service Management 2.0 will handle the rest;

Self Service Management 2.0 is available in a broad range of versions developed to meet all needs, from small systems to the largest installations;

The software is optimised to provide the perfect response for those seeking high performance and maximum practicality;

Use of the Self Service Management 2.0 software requires the new range of SELF SERVICE 2.0 dispensing devices;

Button key readers kit is available on request.

FRANKLIN FUELING COLIBRI CL6D – PRODUCT CODE: TANKGAUGE-COLIBRI-CATA

The new Colibri monitoring system is ideal for the fueling station owner or commercial customer who requires basic, straightforward information on fuel inventory.

Features:
- Monitors fuel levels and density measurements in up to six tanks;
- Static and continuous tank leak detection capabilities;
- Standard communication ports;
- External USB printer support;
- Web interface for remote access;
- Programmable email notification of alarms and events;
- Compact size provides installation location flexibility;
- Auto-calibration can recreate missing or inaccurate tank strapping charts;
- One-third the size of an average tank gauge, Colibri is easy to use and mounts anywhere;
- Accurate and reliable information for under ground or above ground tanks;
- Real-time fuel inventory, density measurements and delivery reports to give you timely and accurate information;
- Constantly tracks your fuel stock, comparing data and checking for discrepancies in your system;
- Includes two forms of leak detection help protect your fuel inventory;
- Water intrusion alarms provide immediate notification of the presence of water in your tanks.

With the Colibri system you can:
- Know the exact amount and quality of your fuel inventory;
- Access inventory remotely;
- Prevent fuel loss with static and SCALD leak detection;
- Receive accurate delivery reports and density measurements;
- View information you need on a full-colour LCD touch screen;
- Save space with the compact yet performance driven Colibri;
- Relax with automatic fuel level alarms;
- Eliminate potential human error.

Specifications:
- Number of tanks monitored: 6;
- Output channels: 2;
- Display type: colour LCD touch screen;
- Internal audible alarm;
- Alarm, warning and power LEDs;
- Applicable liquids: petroleum, chemicals and hazardous waste;
- Level units: centimeters, millimeters and inches;
- Volume units: litres or gallons (mass with density option);
- Display size: 142 mm (5.6 in);
- Dimensions: 185 mm x 303 mm x 57 mm (7.27 in x 11.92 in x 2.24 in);
- Power requirements: 94 to 264 VAC, 50/60 Hz 1.0 Amps;
- Operating temperature: 0 to 40 °C (32 to 104 °F);
- Humidity: 0% to 95% non-condensing;
- Intrinsically safe rating: US – Class I, Div. I, Group D; Europe – Group IIA, Zone 0;
- Compatible with FFS inventory and leak detection LL2 probes.
GAUGES

FRANKLIN FUELING TS-550 EVO - PRODUCT CODE: TANKGAUGE-EVO-CATA

Fluid Management
Bold new look. Revolutionary new features. The evolution of fuel management has arrived. TS-550 evo brings a new level of usability and functionality to fuel management. A highly evolved user interface and blisteringly-fast new processor make everything from daily functions to advanced setup and programming simple for every user.

Interface
Life happens in full colour, so should fuel management. The brilliant colour of the 7” touch screen brings a new level of user-friendliness, allowing you to navigate more easily, without memorizing buttons and locations. Vibrant new icons and programmable product colours make this the most intuitive tank gauge available.

Simplicity
At the end of the day, the shorter the time spent dealing with fuel management, the better. TS-550 evo makes it easier for you to get from A to B; simpler menus and the new Quick Jump menu make it easy to jump to any function, at any time, from any screen.

Power
Spend less time waiting for reports or waiting for data to load and more time getting on with your day. A new, faster processor provides unprecedented speed and processing power while the expandable memory option allows you to store reports as long as you need.

Functionality
There’s no learning curve with this new system. TS-550 evo makes fuel management like second nature, designed to be understood easily and operated immediately, complete with fully programmable One Touch shortcut buttons for simple execution of your most common tasks.

Alarms
A fuel management system’s main function is to protect the site it monitors. When an alarm occurs there’s no time for second-guessing or confusion. Clear, colourful notification, descriptive identifications, and a totally reinvented alarms page provide complete clarity when you need it most.

Fuel Management For Everyone
The Manager
Juggling fuel management and compliance while managing the daily functions of a convenience store is no easy task for managers. Compliance tracking keeps managers in the loop on all critical compliance testing by tracking any potential issues and reporting them with helpful alerts and warnings. TS-550 evo helps avoid non-compliance alarms by providing the information managers need, before it’s too late.

The Store Clerk
The clerk’s primary function is to serve customers, so let her TS-550 evo features revolutionary One Touch shortcut buttons, which allow simple activation of important non-automated tasks. One Touch keeps clerks out of the back room and in front of customers.

The Technician
Get in, set up, move on. It’s all about speed and accuracy with these guys. Technicians want the most efficient method possible to program a fuel management system. The Franklin Auto Setup Tool (F.A.S.T.) lets technicians automatically detect how many and which types of devices are connected to the system. F.A.S.T. completely removes the added programming time and provides reliable, accurate setup data.

POWER

WATER FINDING PASTE - PRODUCT CODE: WATERFINDINGPASTE-CATA

• Packaged in 3oz tubes only;
• Golden brown in colour and will turn brilliant red when in contact with water;
• Will successfully gauge water in all petroleum and hydrocarbons as well as sulphuric acid, nitric acid, hydrochloric acid, ammonia, soap solutions, salt and other chloric products;
• To use: place a thin film on the tank dipstick at the level you would expect the water to be;
• Lower into the tank until the bottom is reached;
• Water level will appear by positive contrast in paste colour;
• Instant results be obtained in Diesel, Kerosene, Gasoline and Gas Oils. Heavier oils will take a few minutes.

HYDROCARBON FINDING PASTE - PRODUCT CODE: HYDROCARBONFINDINGPASTE-CATA

• Packaged in 2.25 oz plastic jars only;
• Light pink in colour and will turn red when in contact with gasoline, diesel, kerosene, crude oil, jet fuel, avgas and other hydrocarbon products;
• Can be used as a very effective product level indicator;
• Store at temperature range of 10 °C - 35 °C for preservation of the product.

MODIFIED WATER FINDING PASTE - PRODUCT CODE: MODIFIEDWATERFINDPASTE-CATA

• Has been designed for use in Methanol / Ethanol enriched fuel systems;
• Alcohols are soluble in fuels in all proportions when they are water-free but relatively small amounts of water can cause separation of alcohol from the fuel;
• The mixture settling to the bottom of the tank contains a high concentration of alcohol and cannot be detected by most water detection pastes;
• Changes from dark brown to bright red on contact with water;
• Phase separation alcohol solutions with as little as 6% water will turn the paste yellow;
• The product is designed to be used in reformulated and oxygenated fuel systems;
• After testing it seems that alcohol or de-icing agents in fuels have very little effect on the performance of the product.
MECLUBE GREASE PUMP KIT

- Air operated 60:1 grease pump kit;
- 1.6kg/min, weight 7.1kg;
- Supplied with:
  - Handle;
  - Drum lid;
  - Follower plate;
  - 3m x 1/4" hose;
  - Control valve;
  - Z swivel;
  - 1/4" air connection BSP;
  - 1/4" M grease outlet BSP;
  - Noise 76db;
  - Shank dia - 30mm;
  - Air consumption 130rpm.

<table>
<thead>
<tr>
<th>Code</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>013-1102-000-CATA</td>
<td>20</td>
</tr>
<tr>
<td>013-1104-000-CATA</td>
<td>180</td>
</tr>
</tbody>
</table>

MECLUBE 20KG GREASE PUMP TROLLEY KIT – PRODUCT CODE: 013-1108-000-CATA

- Air operated 60:1 trolley grease pump kit;
- 1.6kg/min;
- Supplied with:
  - Air operated 60:1 grease pump;
  - Follower plate;
  - Grease control gun with flexible hose and 4-jaws coupling;
  - Trolley for 16-30 Kg drums;
  - 3m hose;
  - Shank length 480 mm;
  - Noise 76db;
  - Air consumption 130rpm.

<table>
<thead>
<tr>
<th>Code</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>013-1102-000-CATA</td>
<td>20</td>
</tr>
<tr>
<td>013-1104-000-CATA</td>
<td>180</td>
</tr>
</tbody>
</table>

MECLUBE GREASE PUMP – PRODUCT CODE: 010-1015-000-CATA

- Air operated 60:1 grease pump;
- Pump only to suit 180 to 220kg drums;
- 1.6kg / min grease delivery;
- 1/4" BSP Air inlet;
- 1/4" M grease outlet BSP;
- Noise 76db;
- 30mm shank diameter;
- Shank length 950mm;
- Air consumption 130rpm;
- Aluminum alloy body pump with electrolytic treatment that ensures very high corrosion strength;
- High operating pressure;
- High stressed elements in Fe 420 steel;
- Brand new fully air operated motion reverse device, without cams and springs;
- Reduced number of moving parts;
- Max pressure feeding 8 bar;
- Weight 7,10 kg, volume 0,016 m³;
- The operating pressure of the grease pumps hereby may vary between a minimum of 2.5 bar and a maximum of 8 bar. In order to optimise the efficiency and the life of our air operated pumps, we recommend to use filtered and lubricated air.

<table>
<thead>
<tr>
<th>Code</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>014-1051-030-CATA</td>
<td>20</td>
</tr>
<tr>
<td>014-1056-030-CATA</td>
<td>180</td>
</tr>
</tbody>
</table>

MECLUBE GREASE DRUM COVER PLATE

- Provided with hand wheel screws for fixing the lid to the drum;
- Keeps the pump in a vertical position to assure perfect alignment of the pump.

<table>
<thead>
<tr>
<th>Code</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>014-1062-030-CATA</td>
<td>20</td>
</tr>
<tr>
<td>014-1066-030-CATA</td>
<td>180</td>
</tr>
</tbody>
</table>

MECLUBE GREASE DRUM FOLLOWER PLATE

- It is recommended to always use a follower plate;
- The follower plate presses the grease as the pump is working in order to avoid depressions / air cavities in the grease;
- Pushes grease that has formed on the walls of the drum to the bottom of the drum;
- Assures you of the maximum extraction of grease possible from the drum.

<table>
<thead>
<tr>
<th>Code</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>014-1062-030-CATA</td>
<td>20</td>
</tr>
<tr>
<td>014-1066-030-CATA</td>
<td>180</td>
</tr>
</tbody>
</table>
MECLUBE MANUAL GREASE PUMP – PRODUCT CODE: 016-1150-020-CATA

• Manual grease pump for 18-30 kg drums;
• Outlet grease pressure 400 bar;
• 60g delivery by 10 cycles of the lever;
• Supplied with:
  - 2m hose 1/4”;
  - Isolation valve;
  - 200mm long rigid delivery wand;
  - 4 jaw coupler;
  - Lid for pumps with shank;
  - Follower plate for pumps with shank;
• Weight 6,550 kg;
• Volume 0.023 m³.

MINI GREASE GUN PISTOL OPERATED – PRODUCT CODE: 43250-CATA

• One hand Pistol grip Grease Gun with convenient pull type operating mechanism;
• Capacity: 3 oz (85 gms) grease cartridge or 120 cc bulk fill;
• Available in a choice of textured zinc plated or powder coated finish;
• Complete with 4” steel extension and 4 jaw coupler with ball check;
• 3,500 PSI, 240 bar;
• Cartridge loading;
• Suction fill;
• Automotive application.

HEAVY DUTY GREASE GUN PISTOL OPERATED – PRODUCT CODE: 43088-CATA

• Suitable for use with 450g cartridges or for use with bulk grease;
• Most popular One Hand Operated Grease Gun designed for use in confined spaces or where access to grease nipple is restricted;
• Heavy Duty Aluminum Die Cast Head & super strong pistol grip handle;
• Pistol Handle designed to prevent fingers from “Pinching”;
• Develops 5000 PSI / 345 bar;
• Built tough: Robust barrel 0.049” (1.2 mm) thick, Heavy Duty Follower Spring, CNC machined grease gun head, large rolled threads for fast and easy re-loading;
• Complete with 12” (300 mm) flexible hose & professional 4 jaw coupler with ball check.

HEAVY DUTY GREASE GUN LEVER OPERATED – PRODUCT CODE: 43088-CATA

• Top of the line Grease gun designed for punishing day-in and day-out heavy industrial applications;
• Develops 10,000 PSI / 690 bar;
• Variable stroke feature built in for use in confined areas;
• High Tolerance Aluminum Die Cast Grease Gun Head;
• Built tough: Robust barrel 0.049” (1.2 mm) thick, Heavy Duty Follower Spring, CNC machined grease gun head, large rolled threads for fast and easy re-loading;
• Supplied with a 6” (150 mm) steel extension and professional 4 jaw coupler with ball check;
• Heavy Duty Grease Gun head c.w bulk loader and an air bleeder valve;
• Rugged and Robust zinc plated level handle;
• Ergonomically designed rubber grip;
• Non slip textured finish;
• Unique lock level mechanism allows the user to easily lock plunger rod in any position;
• Suction fill capability;
• Able to be loaded using a filler pump;
• 1gm / stroke;
• Suitable for Automotive / Industrial / Agriculture and Construction use.

GREASE GUN AIR OPERATED – Product Code 43381-CATA

• Ideal for use in factory maintenance, agricultural applications, fleet service or for use on trucks connected to vehicle air brake compressors;
• Air Operating Range: 40–120 PSI (3-8 bar);
• Pressure Ratio: 40:1;
• Air Compressor Volume: 1 cfm / 0.026 cubic metre and above;
• Air inlet threaded 1/4”NPT (F);
• Each gun supplied with a male quick coupler fitting;
• 4,800 PSI, 330 bar;
• Cartridge Loading;
• Suction fill;
• Filler Pump Loading.
PIUSI METERED GREASE CONTROL VALVE

Grease meter nozzle. The “Greaster” is a new grease dispensing nozzle that comes complete with an integrated oval-gear flow meter. The resettable batch total provides the complete control over the lubrication operations; the cumulative total provides a constantly updated record of grease consumption.

- Flow rate up to 2.5 kg/min;
- Operating pressure: max 550 bar;
- Bursting pressure: min 1600 bar;
- Accuracy: +/- 3%;
- In-line version;
- In-line version available for direct installation on the grease dispensing tube.

### Code Description Flow Rate Pressure

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Thread</th>
<th>Size</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>43520-CATA</td>
<td>Grease 4 Jaw Coupler with Ball Check, 10 000psi</td>
<td>BSP</td>
<td>1/8&quot;</td>
<td>-</td>
</tr>
<tr>
<td>43700-CATA</td>
<td>Grease Flexible Extension 300mm, 5800psi</td>
<td>BSP</td>
<td>1/8&quot;</td>
<td>-</td>
</tr>
<tr>
<td>43701-CATA</td>
<td>Grease Flexible Extension 450mm, 5800psi</td>
<td>BSP</td>
<td>1/8&quot;</td>
<td>-</td>
</tr>
<tr>
<td>44620-50-CATA</td>
<td>Grease Steel Extension 100mm</td>
<td>BSP</td>
<td>1/8&quot;</td>
<td>-</td>
</tr>
<tr>
<td>44630-50-CATA</td>
<td>Grease Steel Extension 150mm</td>
<td>BSP</td>
<td>1/8&quot;</td>
<td>-</td>
</tr>
<tr>
<td>44950-CATA</td>
<td>Quick Connect Grease Accessory Kit 7 Piece</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>44841-CATA</td>
<td>Grease Gun Holder to suit 400g Grease Gun Range</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>44842-CATA</td>
<td>Grease-Gun Holder to suit 450g Grease Gun Range for use in high vibration and heavy duty industrial applications</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>46200-50-CATA</td>
<td>Pack of 50 Grease Nipple 6.0mm x 1.0mm Straight</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>46201-50-CATA</td>
<td>Pack of 50 Grease Nipple 6.0mm x 1.0mm 45°</td>
<td>-</td>
<td>-</td>
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<tr>
<td>46210-50-CATA</td>
<td>Pack of 50 Grease Nipple 6.0mm x 1.0mm 90°</td>
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<tr>
<td>46211-50-CATA</td>
<td>Pack of 50 Grease Nipple 6.0mm x 1.0mm Straight</td>
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<tr>
<td>46212-50-CATA</td>
<td>Pack of 50 Grease Nipple 6.0mm x 1.0mm 45°</td>
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<td>-</td>
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<tr>
<td>46213-50-CATA</td>
<td>Pack of 50 Grease Nipple 6.0mm x 1.0mm 90°</td>
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<tr>
<td>46220-50-CATA</td>
<td>Pack of 50 Grease Nipple Metric 6.0mm x 1.0mm 90°</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>46221-50-CATA</td>
<td>Pack of 50 Grease Nipple Metric 6.0mm x 1.0mm 45°</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>46222-50-CATA</td>
<td>Pack of 50 Grease Nipple Metric 6.0mm x 1.0mm 90°</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>46230-50-CATA</td>
<td>Pack of 50 Grease Nipple Metric 6.0mm x 1.0mm Straight</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>46231-50-CATA</td>
<td>Pack of 50 Grease Nipple Metric 6.0mm x 1.0mm 45°</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>46232-50-CATA</td>
<td>Pack of 50 Grease Nipple Metric 6.0mm x 1.0mm 90°</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>43973-CATA</td>
<td>Assorted 80 Piece Grease Nipple Kit Metric</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>46511-50-CATA</td>
<td>Pack of 50 Grease Nipple 1/4&quot; x 28 Straight</td>
<td>BSP</td>
<td>1/4&quot; x 28</td>
<td>Straight</td>
</tr>
<tr>
<td>46512-50-CATA</td>
<td>Pack of 50 Grease Nipple 1/4&quot; x 28 45°</td>
<td>BSP</td>
<td>1/4&quot; x 28</td>
<td>45°</td>
</tr>
<tr>
<td>46513-50-CATA</td>
<td>Pack of 50 Grease Nipple 1/4&quot; x 28 90°</td>
<td>BSP</td>
<td>1/4&quot; x 28</td>
<td>90°</td>
</tr>
<tr>
<td>46514-50-CATA</td>
<td>Pack of 50 Grease Nipple 1/4&quot; x 28 Straight</td>
<td>UNF</td>
<td>1/4&quot; x 28</td>
<td>Straight</td>
</tr>
<tr>
<td>46515-50-CATA</td>
<td>Pack of 50 Grease Nipple 1/4&quot; x 28 45°</td>
<td>UNF</td>
<td>1/4&quot; x 28</td>
<td>45°</td>
</tr>
<tr>
<td>46516-50-CATA</td>
<td>Pack of 50 Grease Nipple 1/4&quot; x 28 90°</td>
<td>UNF</td>
<td>1/4&quot; x 28</td>
<td>90°</td>
</tr>
<tr>
<td>46500-50-CATA</td>
<td>Pack of 50 Grease Nipple SAE 1/4&quot; x 28 Straight</td>
<td>SAE</td>
<td>1/4&quot; x 28</td>
<td>Straight</td>
</tr>
<tr>
<td>46501-50-CATA</td>
<td>Pack of 50 Grease Nipple SAE 1/4&quot; x 28 45°</td>
<td>SAE</td>
<td>1/4&quot; x 28</td>
<td>45°</td>
</tr>
<tr>
<td>46502-50-CATA</td>
<td>Pack of 50 Grease Nipple SAE 1/4&quot; x 28 90°</td>
<td>SAE</td>
<td>1/4&quot; x 28</td>
<td>90°</td>
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<tr>
<td>46000-50-CATA</td>
<td>Pack of 50 Grease Nipple BSP 1/8&quot; x 27 Straight</td>
<td>BSP</td>
<td>1/8&quot; x 27</td>
<td>Straight</td>
</tr>
<tr>
<td>46001-50-CATA</td>
<td>Pack of 50 Grease Nipple BSP 1/8&quot; x 27 45°</td>
<td>BSP</td>
<td>1/8&quot; x 27</td>
<td>45°</td>
</tr>
<tr>
<td>46002-50-CATA</td>
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<td>BSP</td>
<td>1/8&quot; x 27</td>
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<tr>
<td>46003-50-CATA</td>
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<td>46004-50-CATA</td>
<td>Pack of 50 Grease Nipple SAE 1/8&quot; x 27 45°</td>
<td>SAE</td>
<td>1/8&quot; x 27</td>
<td>45°</td>
</tr>
<tr>
<td>46005-50-CATA</td>
<td>Pack of 50 Grease Nipple SAE 1/8&quot; x 27 90°</td>
<td>SAE</td>
<td>1/8&quot; x 27</td>
<td>90°</td>
</tr>
<tr>
<td>44894-CATA</td>
<td>Grease Nipple Unblocker with guard</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>44895-CATA</td>
<td>Grease nipple thread tester includes all common SAE and Metric Fittings</td>
<td>SAE and Metric</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>44896-CATA</td>
<td>Grease Nipple Easy Out 8 Way Tool for 1/4&quot; x 28 mm fittings</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>44897-CATA</td>
<td>Grease Nipple Easy Out 8 Way Tool for 1/8&quot; x 32mm fittings</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>46700-CATA</td>
<td>Grease Nipple Cap Black Packet 50</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>46701-CATA</td>
<td>Grease Nipple Cap Red Packet 50</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>46702-CATA</td>
<td>Grease Nipple Cap Yellow Packet 50</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
The Pressurised Follower series are specifically designed for the semi bulk storage, transportation and dispensing of all grades of grease. Based on a reduced footprint, this ensures effective space utilisation when loading into shipping containers and confined areas. The design of the Pressurised Follower series is based on customer input and field feedback to ensure ease of operation and maximum service life. This feedback has resulted in a unique design that addresses the concerns and problems traditionally encountered with conventional style grease containers.

**Features**
- Minimal residual - The circular design, flexible follower and discharge sump configuration ensure product residual is minimised. Traditionally less than 5-10 kg is retained within the sump and discharge pipe;
- Reduced contamination - With air pressure acting on top of the follower, external air borne contaminates (dust, moisture, etc) are excluded from the product;
- Materials: shell: 3mm plate | lid: 6mm plate | skid assembly: 3-8mm plate | skid feet: 10mm plate | lid and vent gaskets: nitrile | follower: synthetic | lifting lugs: 12 mm plate;
- Fill / discharge point: 3” ball valve;
- Coupling: 3” camlock adapter and cap;
- External level indicator;
- Vents: pressure 35 kPa, vacuum -3.5kPa;
- Air line fitting: 0.25” BSP(F) socket;
- 4-way fork entry is provided as standard;
- Lifting lugs are optional for top lifting with slings or cables.

**Design**
- Circular design offers greater strength when compared with square designs, allowing the area above the follower to be pressurised with low-pressure compressed air. The circular design is inherently extremely robust, to ensure maximum service life in severe operating environments;
- Flexible wiper, scraping product from the walls during decanting to minimise residual and cross contamination concerns;
- Air pressure (28-32 kPa) acting on top of the follower assists in the downward movement to minimise void pockets occurring and to force feed product to the suction side of the pump;
- A combination pressure and vacuum vent is fitted to prevent over pressurisation of the vessel and to allow product draw off, should air pressure fail or not be available;
- The Pressurised Follower Series are bottom discharge and bottom fill via a 3” ball valve complete with camlock adapter and dust cap;
- Materials of construction include carbon steel or stainless steel.

**Usages**
- delivery | storage | dispensing | transportation;
- 500L, 700L, 1000L, 1200L, 1450L capacity.

**Dimensions and capacities are nominal only. Alternative capacities available on request.**
**ALFAGOMMA FUEL / LUBRICANTS DELIVERY AND SUCTION HOSE**

- Alfagomma T-605 AA fuel / oil suction and delivery hose;
- 10 Bar (150psi rated);
- Supplied 1/2” through to 2”,
- Tube: black conductive NBR,
- Reinforcement: high tensile textile cords with embedded steel helix wire;
- Cover: black CR - abrasion, ozone and hydrocarbon resistant;
- Application: fuel and oil suction and delivery. Specially designed for tank truck and general industrial applications;
- Safety factor: -12°C 3:1 133-254mm 25:1 305mm 1:1.5;
- Temperature: -30°C +80°C (-22°F +176°F);
- Supplied 1/2” through to 2";
- 10 Bar (150psi rated);

**HOSES**

D K L P

**PETRO HOSE RETRACTOR - PRODUCT CODE: 6102**

POMETCO 102 spring balance single hose retractors keep excess hose off the ground and out of the way, prolonging hose life and reducing potential hazards.

The POMETCO 102 is a California Air Resources Board (CARB) certified Stage II component for use with single and dual hose dispensers as per executive order G-70-52-AM.

**Features and Benefits**

- Suitable for 6m x 19mm or 25mm id hose;
- Easy to use - The spring-loaded reel and stretch-resistant cable provide smooth and steady tension throughout hose extension and return;
- Easy to maintain - The removable side plate provides full access to the mechanism for easy tension adjustment and unit maintenance. A convenient safety thumb screw is provided to lock the reel in place during tension adjustment;
- Field adjustable for various hose, nozzle, swivel, breakaway combinations - No need for upgrading components if a breakaway or swivel is added to the hose assembly. Simply change the tension setting on the spring-loaded hose reel;
- Multiple mounting options - The POMETCO 102 retractor housing is tapped on the top for bolting to overhead crossbars, and on the side for mounting to vertical posts. The 102 is available as a retractor kit (including post, retractor and mounting hardware) or as separate components. Models are also available for above ground storage tank (AST) applications. AST models include a 44” (112 cm) post with a freestanding base and an optional nozzle hook/hood kit.

**Materials**

- Housing: cast aluminum;
- Cable: black polyester;
- Post: aluminum.

**PETRO HOSE MAST ASSEMBLY - PRODUCT CODE: HOSEMAST-CATA**

Composite hose made from polypropylene fabrics and films with an abrasion resistant PVC coated fabric cover. Inner and outer wires are galvanized mild steel.

- Fuel and oil Group I Hose;
- Transfuel is a suction and discharge hose mainly for the transfer of petroleum products by road, rail tankers and loading service;
- Contains a barrier layer for 100% aromatic hydrocarbons;
- Complies with AS 2683 Type 1 Grade 1,2 and 3 - 7 bars at the specific safety factor of 6:1;
- Complies with EN 13765 Type 2 - 10 bars at the specific safety factor of 4:1 temperature;
- Depending on the conveyant -30°C to 80°C;

**Table:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description/Size</th>
<th>Inlet</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOSE-F08858000-CATA</td>
<td>50.8mm id hose x 10m Long</td>
<td>BSP</td>
<td>Male each end</td>
</tr>
<tr>
<td>HOSE-19ID-4ML-CATA</td>
<td>19mm id hose x 4m Long</td>
<td>BSP</td>
<td>Male each end</td>
</tr>
<tr>
<td>HOSE-25ID-4ML-CATA</td>
<td>25mm id hose x 4m Long</td>
<td>BSP</td>
<td>Male each end</td>
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<tr>
<td>HOSE-32ID-10ML-CATA</td>
<td>32mm id hose x 10m Long</td>
<td>BSP</td>
<td>Male each end</td>
</tr>
<tr>
<td>HOSE-38ID-10ML-CATA</td>
<td>38mm id hose x 10m Long</td>
<td>BSP</td>
<td>Male each end</td>
</tr>
<tr>
<td>HOSE-19ID-4ML-CATA</td>
<td>19mm id hose x 4m Long</td>
<td>NPT</td>
<td>Male each end</td>
</tr>
<tr>
<td>HOSE-25ID-4ML-CATA</td>
<td>25mm id hose x 4m Long</td>
<td>NPT</td>
<td>Male each end</td>
</tr>
</tbody>
</table>

**Description**

- Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks
- Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks
- Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks
- Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks
- Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks
- Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks
- Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks
- Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks

**PETRO**

- PETRO designed and manufactured;
- Designed to keep the refueling hose off the ground and therefore protected from damage;
- Comprises:
  - Heavy Duty Galvanised Mast
  - Counter Weight Assembly
  - Hosebun Hose Hanger
  - Heavy Duty Roller and Chain Assembly
- Suitable for use with hose from 19mm dia to 80mm dia;
- Will suspend and hold up to 10 metres of hose providing a refueling radius of approximately 9m around the hose mast location;
- Available fitted to a PETRO Double Wall Tank or with a stand alone base plate assembly.

**Table:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks</td>
<td>4m x 10m</td>
</tr>
<tr>
<td>Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks</td>
<td>6m x 50m</td>
</tr>
<tr>
<td>Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks</td>
<td>10m x 50m</td>
</tr>
<tr>
<td>Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks</td>
<td>20m x 50m</td>
</tr>
<tr>
<td>Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks</td>
<td>4m x 75m</td>
</tr>
<tr>
<td>Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks</td>
<td>6m x 75m</td>
</tr>
<tr>
<td>Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks</td>
<td>10m x 75m</td>
</tr>
<tr>
<td>Transfuel Assy c/w Swaged Alum Straight Ohmseal Camlocks</td>
<td>20m x 75m</td>
</tr>
</tbody>
</table>
HOSES

HOSEBUN HOSE HANGER - PRODUCT CODE: HOSEBUN

Your hoses and cables are often an expensive and important part in your production processes. But hoses and cables can often be an obstacle and are therefore susceptible to damage that may arise by driving over them, falling down, bending and kinking. This can reduce the lifespan of your hoses or cables significantly. The Hosebun™ offers optimal support and protection, and guarantees the flow of the substance you want to transport through the hose or cable. The Hosebun™ therefore increases the lifespan of your expensive hoses and cables considerably, and ensures that the flow remains optimal.

A Hosebun™ is a polyurethane saddle designed to suspend hoses. Each model comes complete with its own treated nylon sling which is fastened in a choker position and is designed to accommodate the manufacturers’ minimum bending radius to protect the hose from kinking and prolonging the life of the hose.

Why Do You Need a Hosebun

- Despite continued high cost of materials, consumers continue to use inferior products for the hoisting and suspension of their hoses, based on client feedback we are confident the Hosebun™ is the world’s premier hose suspension device.
- Hose is not cheap, yet time after time people hoist, suspend and manipulate their hose with inferior products. The Hosebun™ is the absolute best hose suspension device in the world, we know because our customers tell us;
- In addition to extending/prolonging the life of your hose, a Hosebun™ will prevent it from kinking or otherwise becoming compromised. Depending on the nature of the material to be transported, kinked or damaged hose can be dangerous or even fatal.
- Optimal support - The specially developed shape of the Hosebun™ saddle, made from strong polyurethane material, results in the Hosebun™ providing optimal support for your hose or cable;
- Optimal Protection - Whether it’s liquid, solids and/or other media, the flow through your hose or cable combined with the Hosebun™ is optimal, and without contractions or blockages due to being suspended;
- Optimal Flow - Look at the Hosebun™ product overview to see which Hosebun best suits your needs and take the step today to optimise, treat and protect your valuable cables and hoses;
- Invest to Save Costs - Besides significantly expanding the life of your hoses and/or cables with the use of the Hosebun™, the delays in your production process due to constriction, damage or breakage are greatly reduced;
- More than just a Saddle - Hosebun™ provides, alongside the Hosebun™ saddles, a number of specially developed products that will enable your production process to further optimise, become safer and increase the work experience.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>HB100ED-CATA</td>
<td>HOSEBUN Hosehanger 1” / 25mm</td>
<td>1” / 25mm</td>
</tr>
<tr>
<td>HB150ED-CATA</td>
<td>HOSEBUN Hosehanger 1 1/2” / 38mm</td>
<td>1 1/2” / 38mm</td>
</tr>
<tr>
<td>HB200ED-CATA</td>
<td>HOSEBUN Hosehanger 2” / 50mm</td>
<td>2” / 50mm</td>
</tr>
</tbody>
</table>

UNDER PUMP FLEXIBLE CONNECTORS - PRODUCT CODE: FLEXCONNECTORS-CATA

- Stainless flexible pipe with mild welded steel ends;
- All threads 1 1/2” BSP. Lengths are nominal only;
- Connects between pipework and pump inlets. Suction use only;
- Max. pressure 43 psi (3 bar);
- Note: Do not turn one end with respect to the other.

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM Male x Tri Flange 170mm</td>
<td>170mm</td>
</tr>
<tr>
<td>TF Female x Tri Flange 170mm</td>
<td>170mm</td>
</tr>
<tr>
<td>TMS Male x Tri Flange 114mm</td>
<td>114mm</td>
</tr>
<tr>
<td>TF Female x Tri Flange 114mm</td>
<td>114mm</td>
</tr>
<tr>
<td>TT Two Tri Flanges 152mm</td>
<td>152mm</td>
</tr>
<tr>
<td>ITS Two Tri Flanges 50mm</td>
<td>50mm</td>
</tr>
</tbody>
</table>

DRY BREAK FITTING PETRO 6000 RANGE - PRODUCT CODE: DRYBREAK-CATA

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Size Base</th>
<th>DN</th>
<th>BSPP</th>
<th>B</th>
<th>C</th>
<th>ØD</th>
<th>L</th>
<th>CH1</th>
<th>CH2</th>
</tr>
</thead>
<tbody>
<tr>
<td>6601-04</td>
<td>6” x 2”</td>
<td>04</td>
<td>6</td>
<td>1/4”</td>
<td>45</td>
<td>40</td>
<td>71</td>
<td>79</td>
<td>99</td>
</tr>
<tr>
<td>6601-06</td>
<td>6” x 2”</td>
<td>06</td>
<td>10</td>
<td>1/2”</td>
<td>54</td>
<td>46</td>
<td>101</td>
<td>119</td>
<td>139</td>
</tr>
<tr>
<td>6601-08</td>
<td>6” x 2”</td>
<td>08</td>
<td>12</td>
<td>3/4”</td>
<td>67</td>
<td>52</td>
<td>134</td>
<td>150</td>
<td>170</td>
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<tr>
<td>6601-10</td>
<td>6” x 2”</td>
<td>10</td>
<td>14</td>
<td>1”</td>
<td>77</td>
<td>63</td>
<td>165</td>
<td>180</td>
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<tr>
<td>6601-12</td>
<td>6” x 2”</td>
<td>12</td>
<td>16</td>
<td>1 1/2”</td>
<td>88</td>
<td>74</td>
<td>197</td>
<td>212</td>
<td>232</td>
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<tr>
<td>6601-16</td>
<td>6” x 2”</td>
<td>16</td>
<td>18</td>
<td>2”</td>
<td>99</td>
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<td>244</td>
<td>264</td>
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<tr>
<td>6601-20</td>
<td>6” x 2”</td>
<td>20</td>
<td>20</td>
<td>2 1/2”</td>
<td>110</td>
<td>101</td>
<td>261</td>
<td>276</td>
<td>296</td>
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<tr>
<td>6601-24</td>
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<td>22</td>
<td>3”</td>
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<td>112</td>
<td>293</td>
<td>308</td>
<td>328</td>
</tr>
<tr>
<td>6601-32</td>
<td>6” x 2”</td>
<td>32</td>
<td>24</td>
<td>4”</td>
<td>132</td>
<td>123</td>
<td>325</td>
<td>340</td>
<td>360</td>
</tr>
</tbody>
</table>

Diesel Gravity Feed Kit - Product Code: Diesel-Gravity

- Only suitable with diesel or biodiesel up to B30;
- Provides simple and quick diesel dispensing from gravity tanks;
- Includes hose, valve, nozzle and PTFE tape;
- 25mm bore delivery hose;
- Locking angle valve version, includes robust aluminium trigger
- Kit individually packed c/w contents label for easy storage.
**Hose Reels**

- Range of robust spring rewind hose reels designed specifically for the dispensing of diesel and lubricants.
- Designed to be used with ¾” (19mm) d or 1” (25mm) d hose.
- The hose reels have been designed to produce minimal pressure loss through the flow path to maximise the flow rate dispensed.
- Range of 2 reels available: 100mm wide small spool or 150mm wide big spool.
- Choice of bare reel, 8m hose, 10m hose or 14m hose (3/4” only).
- Hose reels feature adjustable arms, hose stop, safety spring pack with no exposed parts thus reducing any pinch points, and protective latch mechanism;
- Optional fixed support plates (fixed or swivel) for small or big reels;
- IBC base kit available PRODUCT CODE: F17275000;
- Junction hose available 1” BSP ends x 1m long.

**Code - Description**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Max operating pressure bar</th>
<th>Inlet NPT (m) x Outlet NPT (m)</th>
<th>Hose length (m)</th>
<th>Pressure loss (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>00705101</td>
<td>Hose Reel 1” x 3/4” BIG</td>
<td>10</td>
<td>1” male x 1” female</td>
<td>120</td>
<td>1/2</td>
</tr>
<tr>
<td>00705104</td>
<td>Hose Reel 1” x 3/4” BIG</td>
<td>10</td>
<td>1” male x 1” female</td>
<td>120</td>
<td>1/2</td>
</tr>
<tr>
<td>00705108</td>
<td>Hose Reel 1” x 3/4” BIG</td>
<td>10</td>
<td>1” male x 1” female</td>
<td>120</td>
<td>1/2</td>
</tr>
</tbody>
</table>

**Options**

- • Available in six colours. Metallic blue is standard.
- • Enclosure kits available – ideal when appearance and protection is important.
- • Open swivel ports ensure high fluid flow with minimal pressure loss;
- • Enclosure kits available – ideal when appearance and protection is important.
- • Flexible positioning of guide arm for mounting on bench or ceiling,
- • Flexible mounting options – hang on wall or ceiling, bench, table or tank top-mount options are available;
- • Full-flow swivel maximises fluid flow with minimal pressure drop,
- • Easy spring tension adjustment – increase or decrease pressure spring tension while reel is pressurised;
- • Enclosed hose reel comes with ceiling/wall mounting swivel bracket.
- • Designed for daily use applications, such as dealerships, fleet service and maintenance facilities;
- • Structurally engineered frame made from high strength steel won’t bend or flex;
- • Long-lasting spring provides constant spring torque through the entire range of motion;
- • Flexible positioning of guide arm for mounting on bench or ceiling, wall or utility truck;
- • Steel spool for demanding applications;
- • Open swivel ports ensure high fluid flow with minimal pressure loss;
- • Enclosure kits available – ideal when appearance and protection is important;
- • Available in six colours. Metallic blue is standard.

**Ordering Information**

- Technical Specifications

<table>
<thead>
<tr>
<th>Applications</th>
<th>Metallic Blue</th>
<th>White</th>
<th>Red</th>
<th>Black</th>
<th>Dark Blue</th>
<th>Yellow</th>
<th>Technical Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air, Water</td>
<td>HPM35B</td>
<td>HPM35A</td>
<td>HPM35C</td>
<td>HPM35D</td>
<td>HPM35E</td>
<td>HPM35F</td>
<td>Pressure: 300-4000 psi (20.7-276 bar)</td>
</tr>
<tr>
<td>Air, Water</td>
<td>HPM45B</td>
<td>HPM45A</td>
<td>HPM45C</td>
<td>HPM45D</td>
<td>HPM45E</td>
<td>HPM45F</td>
<td>Pressure: 300-5000 psi (20.7-345 bar)</td>
</tr>
<tr>
<td>Air, Water</td>
<td>HPM55B</td>
<td>HPM55A</td>
<td>HPM55C</td>
<td>HPM55D</td>
<td>HPM55E</td>
<td>HPM55F</td>
<td>Pressure: 300-6000 psi (20.7-414 bar)</td>
</tr>
<tr>
<td>Air, Water</td>
<td>HPM65B</td>
<td>HPM65A</td>
<td>HPM65C</td>
<td>HPM65D</td>
<td>HPM65E</td>
<td>HPM65F</td>
<td>Pressure: 300-7000 psi (20.7-483 bar)</td>
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<td>HPM75A</td>
<td>HPM75C</td>
<td>HPM75D</td>
<td>HPM75E</td>
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<td>Pressure: 300-8000 psi (20.7-551 bar)</td>
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<td>HPM85A</td>
<td>HPM85C</td>
<td>HPM85D</td>
<td>HPM85E</td>
<td>HPM85F</td>
<td>Pressure: 300-9000 psi (20.7-619 bar)</td>
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<td>HPM95C</td>
<td>HPM95D</td>
<td>HPM95E</td>
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<td>Pressure: 300-10000 psi (20.7-688 bar)</td>
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<td>HPM100B</td>
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<td>HPM100C</td>
<td>HPM100D</td>
<td>HPM100E</td>
<td>HPM100F</td>
<td>Pressure: 300-11000 psi (20.7-757 bar)</td>
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<td>HPM115C</td>
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<td>HPM115E</td>
<td>HPM115F</td>
<td>Pressure: 300-12000 psi (20.7-826 bar)</td>
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<td>HPM135C</td>
<td>HPM135D</td>
<td>HPM135E</td>
<td>HPM135F</td>
<td>Pressure: 300-13000 psi (20.7-994 bar)</td>
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<tr>
<td>Grease</td>
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<td>HPM155A</td>
<td>HPM155C</td>
<td>HPM155D</td>
<td>HPM155E</td>
<td>HPM155F</td>
<td>Pressure: 300-14000 psi (20.7-1063 bar)</td>
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<tr>
<td>Grease</td>
<td>HPM195B</td>
<td>HPM195A</td>
<td>HPM195C</td>
<td>HPM195D</td>
<td>HPM195E</td>
<td>HPM195F</td>
<td>Pressure: 300-16000 psi (20.7-1132 bar)</td>
</tr>
</tbody>
</table>

**Additional Information**

- Required inlet hose kit sold separately;
- Reel Only – No Mounting Hardware Included.

---

**GRACO SD SERIES – ENCLOSED HOSE REELS**

- Designed for light-duty applications;
- Enclosed for safety and protection, extends hose life;
- Flexible mounting options – hang on wall or ceiling, bench, table or tank top-mount options are available;
- Full-flow swivel maximises fluid flow with minimal pressure drop;
- Easy spring tension adjustment – increase or decrease pressure spring tension while reel is pressurised;
- Enclosed hose reel comes with ceiling/wall mounting swivel bracket.

**Applications**

- Air, Water
- Aircraft
- Grease
- Fuel
- Washer Fluid
- Water
- Synthetic Oils

**Technical Specifications**

- Pressure: 300-2000 psi (20.7-138 bar)
- Pressure: 300-4000 psi (20.7-276 bar)
- Pressure: 300-5000 psi (20.7-345 bar)
- Pressure: 300-6000 psi (20.7-414 bar)
- Pressure: 300-7000 psi (20.7-483 bar)
- Pressure: 300-8000 psi (20.7-551 bar)
- Pressure: 300-9000 psi (20.7-619 bar)
- Pressure: 300-10000 psi (20.7-688 bar)
- Pressure: 300-11000 psi (20.7-757 bar)
- Pressure: 300-12000 psi (20.7-826 bar)
- Pressure: 300-13000 psi (20.7-994 bar)
- Pressure: 300-14000 psi (20.7-1063 bar)
- Pressure: 300-16000 psi (20.7-1132 bar)
### GRACO XD SERIES

**HOSE REELS**

- Designed for robust/heavy-duty applications such as mobile lube trucks or large equipment service, yet with a narrow footprint to fit more reels into small spaces.
- Dual pedestal frame provides increased strength for extreme-duty applications;
- Long lasting spring is sealed for protection against the weather;
- Durable steel spool rides on sealed roller bearings to ensure trouble-free performance;
- Available in four colours. Metallic blue is standard;
- Available with arms removed or bulkhead mounting.

### Technical Specifications

#### Ordering Information

<table>
<thead>
<tr>
<th>Applications</th>
<th>Model number by color</th>
<th>Pressure psi (bar)</th>
<th>Hose id (in)</th>
<th>Length (ft)</th>
<th>Inlet (1/2 npsm)</th>
<th>Outlet (1/2 npsm)</th>
<th>Operating Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air, water Anti-freeze washed windshield wiper fluid</td>
<td>HSDL90</td>
<td>90 (6.2)</td>
<td>3/8</td>
<td>50 (15)</td>
<td>3/4 npsm</td>
<td>3/4 npsm</td>
<td>-40-180 °F (-40-82 °C)</td>
</tr>
<tr>
<td>Petroleum and synthetic based oils</td>
<td>HSDA90</td>
<td>90 (6.2)</td>
<td>3/8</td>
<td>50 (15)</td>
<td>3/4 npsm</td>
<td>3/4 npsm</td>
<td>-40-180 °F (-40-82 °C)</td>
</tr>
<tr>
<td>Gas</td>
<td>HSDB90</td>
<td>90 (6.2)</td>
<td>3/8</td>
<td>50 (15)</td>
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<td>-40-180 °F (-40-82 °C)</td>
</tr>
<tr>
<td>Pressure wash</td>
<td>HSL500</td>
<td>500 (34)</td>
<td>3/8</td>
<td>35 (11)</td>
<td>3/4 npsm</td>
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<td>-40-220 °F (-40-95 °C)</td>
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<tr>
<td>Fuel evacuation</td>
<td>HSL850</td>
<td>850 (58)</td>
<td>3/8</td>
<td>75 (23)</td>
<td>3/4 npsm</td>
<td>3/4 npsm</td>
<td>-40-220 °F (-40-95 °C)</td>
</tr>
</tbody>
</table>

### Typical Applications:

- Heavy-duty truck dealers;
- Fleet maintenance;
- Mining maintenance;
- Public works garages;
- Construction vehicle maintenance;
- Heavy-duty mobile service trucks.

### Typical Fluids Handled:

- Petroleum and synthetic based oils;
- Fuel;
- Air;
- Water;
- Anti-freeze;
- Waste Oil.

### Expanded Hose Offering:

- Standard models come complete with factory installed hoses on the reel. We have a large selection to fit your application;
- No limit to where it fits - Rotatable inlet position makes mounting easier in more applications so there’s almost no limit to where it fits;
- More flow, less pressure drop - A Graco exclusive breakthrough swivel design allows better flow to get work done faster. Materials are corrosion resistant and strong for long lasting performance;
- Won’t lockout - Improved ratchet design has one set of teeth instead of two to avoid reel lockout;
- Rugged and durable body - Heavy-duty welded spool is stronger than bolted frames that can loosen with use. Ribs add extra strength for toughness over the long haul;
- Meets worldwide needs - Built with NPT, BSP or BSPT threads means accessories screw right on without the need for adapters. You have fewer leak points…all with global approvals, so you can install it anywhere in the world.
### GRACO XD40 AND XD 50 SERIES – ORDERING INFORMATION & ACCESSORIES

#### Reel with Hose Ordering Information

<table>
<thead>
<tr>
<th>Applications</th>
<th>Pressure (psi)</th>
<th>Hose Dimension</th>
<th>Connection Size</th>
<th>Operating Temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air / Water</td>
<td></td>
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<td>Model 1</td>
<td>-40º-180º F</td>
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<td></td>
<td>24P313</td>
<td>24P315</td>
<td>24P316</td>
<td>1/2 100 (30)</td>
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<tr>
<td></td>
<td>24P317</td>
<td>24P318</td>
<td>24P319</td>
<td>1/2 100 (30)</td>
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<td>24P345</td>
<td>24P346</td>
<td>24P347</td>
<td>1/2 100 (30)</td>
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<tr>
<td></td>
<td>24P330</td>
<td>24P331</td>
<td>24P332</td>
<td>1 3/4</td>
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<td>24P333</td>
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<tr>
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<td>24R857</td>
<td>24R849</td>
<td>24R860†</td>
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#### Technical Specifications

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<tr>
<th>Applications</th>
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<th>Hose Dimension</th>
<th>Connection Size</th>
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### Accessories

<table>
<thead>
<tr>
<th>Inlet Hose Kits</th>
<th>Pressure (psi)</th>
<th>Hose id (in)</th>
<th>Length (ft)</th>
<th>Hose Inlet</th>
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<tbody>
<tr>
<td>24R111</td>
<td>1275 (88)</td>
<td>1 (25)</td>
<td>28 (711) npt(m)</td>
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<td>24R112</td>
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<td>1 (25)</td>
<td>28 (711) npt(m)</td>
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<td>1 (25)</td>
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<tr>
<td>24R117</td>
<td>150 (10)</td>
<td>1.5 (38)</td>
<td>28 (711) npt(m)</td>
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<thead>
<tr>
<th>Ball Stop Kits</th>
<th>Pressure (psi)</th>
<th>Hose id (in)</th>
<th>Length (ft)</th>
<th>Hose Inlet</th>
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<tr>
<td>24R111</td>
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<td>24R117</td>
<td>150 (10)</td>
<td>1.5 (38)</td>
<td>28 (711) npt(m)</td>
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</table>

<table>
<thead>
<tr>
<th>Arm Kits &amp; Roller Guides</th>
<th>Pressure (psi)</th>
<th>Hose id (in)</th>
<th>Length (ft)</th>
<th>Hose Inlet</th>
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<tbody>
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<td>24R076</td>
<td>1275 (88)</td>
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<td>24R079</td>
<td>150 (10)</td>
<td>1.5 (38)</td>
<td>28 (711) npt(m)</td>
<td></td>
</tr>
</tbody>
</table>

* Truck/bench mount only. † Overhead or truck mount.

---

**Note:** For a comprehensive list of accessories, including inlet hose kits, ball stop kits, arm kits, roller guides, and support arm kits, please refer to the GRACO XD40 and XD 50 SERIES – ORDERING INFORMATION & ACCESSORIES document.
**XD 60, XD 70 AND XD 80 MOTOR DRIVEN HOSE REELS**

Choose from multiple frame and motor combinations—mix and match to make quick work of configuring the reel for your application. Reels can easily be configured for left or right inlet orientation by switching the outlet direction and motor rotation to suit your needs. Order reels assembled, or choose frames and motor modules to maximise uptime for on-site installations.

- Drive unit is clean and lubricated for life, so there’s no need to worry about greasy, exposed drive chains that need maintenance and can be dangerous to operators;
- A Graco exclusive—breakthrough swivel design allows better flow to get work done faster;
- Materials are corrosion resistant and strong for long lasting performance;
- Direct drive hydraulic, and enclosed gear drive pneumatic and electric with 12, 24, 115, and 230 VAC motor options;
- Electric motors are UL listed for use in hazardous locations;
- 600 psi (41 bar) low pressure and 3,000 psi (207 bar) medium pressure models;
- Operating temperature range of -40 to 180º F (-40 to 82º C)*;
- Adjustable band clamp brake used to slow and stop reel;
- Optional roller guides and arms available as accessories.

* Grease reels are rated for 0º to 180º F (-18 to 82º C)

<table>
<thead>
<tr>
<th>Model</th>
<th>Hose Capacity</th>
<th>Swivel Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>XD 60</td>
<td>Up to ½ in x 100 ft, ¾ in x 100 ft, 1 in x 50 ft</td>
<td>1 inch NPT inlet and outlet</td>
</tr>
<tr>
<td>XD 70</td>
<td>Up to 1 in x 100 ft, 1.5 in x 65 ft, 2 in x 33 ft</td>
<td>1.5 or 2 inch NPT inlet and outlet</td>
</tr>
<tr>
<td>XD 80</td>
<td>Up to 1 in x 150 ft, 1.5 in x 100 ft, 2 in x 50 ft</td>
<td>1.5 or 2 inch NPT inlet and outlet</td>
</tr>
</tbody>
</table>

**Typical Fluids**

- Air;
- Water;
- Oil;
- Grease;
- Fuel Dispense;
- Waste Oil Evacuation.

**Top Quality Solutions for:**

- Mining Operations;
- Oil and Gas;
- Heavy-duty Construction;
- Agriculture;
- Sewer and Waste Water;
- Transportation.

---

**25MM ID HOSE - MECLUBE SPRING REWIND HOSE REELS**

- 20m x 25mm id hose PRODUCT CODE: 070-1608-620-CATA;
- 30m x 25mm id hose PRODUCT CODE: 070-1608-630-CATA;
- Spring rewind high capacity hose reel;
- Supplied with:
  - Antistatic black rubber hose;
  - Galvanised fittings;
  - Swivelling joint 90° galvanised;
  - Viton seals;
- 25mm BSP Female inlet connection, male outlet connection.

**12.7MM ID AND 19MM ID HOSE - MECLUBE SPRING REWIND HOSE REELS**

- 15m x 12.7mm id hose PRODUCT CODE: 070-1306-415-CATA;
- 15m x 19mm id hose PRODUCT CODE: 070-1506-515-CATA.

Automatic hose reel in varnished steel with automatic spring return, suitable for air, oil, water and grease delivering with hoses. The spring hose allows to uncoil only the length which is necessary improving the working. The hose winding is fast and safe and it allows a work place which gives you the possibility to work free and tidy, it also avoids the possible wear and breaking of the hoses.

- Supplied with:
  - Synthetic black rubber hose;
  - Galvanised fittings;
  - Swivelling joint 90° galvanised;
  - Polyurethane seals.

**MECLUBE MANUAL REWIND - PRODUCT CODE: 077-9408-600-CATA**

Bare manual rewind hose reel suitable for use with up to 61m x 25mm id hose:

- Heavy duty powder coated steel frame and reel spool;
- Supplied with:
  - Galvanised fittings;
  - Swivelling joint 90° galvanised;
  - Viton seals;
- 25mm inlet and outlet;
- Strong handle for manual rewind c/w replaceable bearing;
- Capacity of up to 60m x 25mm ID hose or 91m x 3/4” ID hose;
- A good alternative to spring rewind hose reels for large quantities of hose.
MECLUBE DRIP POCKET / BUND NOZZLE SUPPORT – PRODUCT CODE: 024-1785-000-CATA

- Modular drip pocket/tray;
- Equipped with oil nozzle hook;
- Removable drip tray;
- Ideal to fit with hose reels, for holding the nozzle in place;
- Keeps the wall and floor clean and safe.

MECLUBE PISTON PUMP WALL BRACKET – PRODUCT CODE: 025-1265-000-CATA

- Painted steel wall fixing bracket;
- With rubber anti-vibration spacer;
- Suitable to fix air operated piston pumps (Meclube Range) to hose reel stands / towers or on walls.

MECLUBE DIAPHRAGM PUMP WALL BRACKET – PRODUCT CODE: 025-1266-000-CATA

- Painted steel wall fixed bracket;
- With rubber anti-vibration spacer;
- Suitable to fix air operated piston pumps (Meclube Range) to hose reel stands / towers or on walls.

MECLUBE IBC PUMP/HOSE REEL MOUNTING BRACKET – PRODUCT CODE: 025-1267-000-CATA

- Heavy duty powder coated adjustable bracket designed to mount on the top of 1000L IBCs;
- Bracket is designed to hold an air operated piston style of pump;
- Bracket is pre-drilled with required bolt holes for mounting of a spring rewind hose reel;
- Heavy duty design, converts an IBC into a convenient bulk storage and dispensing unit.

ACCESSORIES

MECLUBE HOSE REEL STANDS

Fixed cabinets that offer an independent working station. Allows optimal storage in every working environment (factories and repair shops). Operate in a clean and safe way without wasting lubricant oils.

- Supplied with oil gun drip tray and banded support beam.

NOTE: hose reels and nozzles not included.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>025-1963-000-CATA</td>
<td>Support cabinet for 4 hose reels</td>
<td>1113 x 500 x 2500</td>
</tr>
<tr>
<td>025-1964-000-CATA</td>
<td>Support cabinet for 6 hose reels</td>
<td>1550 x 500 x 2500</td>
</tr>
</tbody>
</table>

MECLUBE CABINET / WORKBENCH – PRODUCT CODE: 023-1966-000-CATA

- Frame cabinet for oil distribution;
- Allow optimal positioning in every working environment;
- Clean and safe supply without wastage;
- The base is composed by a bund and holds 2 drums of 180-220L;
- The cabinet is pre-arranged for max 4 hose reels and has a worktop of 1600x700mm;
- Optional workbench c/w full dispensing package - 2 x 3:1 pumps 30lpm, 2 x 1/2”x10m closed spring rewind hose reels, 2 x digital oil control guns, air regulator / lubricator – PRODUCT CODE: 023-1967-000-CATA.

NOTE: dispensing equipment not included with 023-1966-000-CATA.

MECLUBE TOWER FOR HOSE REEL

Fixed support that offers an independent working station. Optimal positioning in every working environment. Operate in a clean and safe way and without wastage.

- Predisposed universal hole, allows the application of hose reels, pumps, etc.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>025-1998-001-CATA</td>
<td>Tower hose reel suitable for mounting 1 x hose reel</td>
<td>450 x 350 x 2420 (mounting plate 272)</td>
</tr>
<tr>
<td>025-1998-002-CATA</td>
<td>Tower hose reel suitable for mounting 2 x hose reels</td>
<td>450 x 350 x 2420 (mounting plate 950)</td>
</tr>
<tr>
<td>025-1998-003-CATA</td>
<td>Tower hose reel suitable for mounting 3 x hose reels</td>
<td>450 x 350 x 2420 (mounting plate 1113)</td>
</tr>
<tr>
<td>025-1998-004-CATA</td>
<td>Tower hose reel suitable for mounting 4 x hose reels</td>
<td>450 x 350 x 2420 (mounting plate 1113)</td>
</tr>
</tbody>
</table>
### PIUSI K33 MECHANICAL METER – PRODUCT CODE: METER-000550000-CATA

- Flow rate 20-120lpm (5-32gpm);
- Repeatability 0.2% | accuracy + / - 1%
- Nutating disk meter;
- Reliable, economical and easy to install and calibrate on site;
- Able to be used in gravity applications due to reduced resistance to flow;
- 3 digit partial totals (max 999 litres), 6 digit totaliser;
- Options for 4 x different flow paths;
- 25mm (1”) BSP female threaded inlet and outlet.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow Direction</th>
<th>Flow rate</th>
<th>Pressure</th>
<th>Pulser Inlet</th>
<th>Weight</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>000550000</td>
<td>K33 Ver. A</td>
<td>20-120</td>
<td>3-12</td>
<td>10</td>
<td>142</td>
<td>T-1BP</td>
<td>2</td>
</tr>
<tr>
<td>000551000</td>
<td>K33 Ver. B</td>
<td>20-120</td>
<td>3-12</td>
<td>10</td>
<td>142</td>
<td>T-1BP</td>
<td>2</td>
</tr>
<tr>
<td>000552000</td>
<td>K33 Ver. C</td>
<td>20-120</td>
<td>3-12</td>
<td>10</td>
<td>142</td>
<td>T-1BP</td>
<td>2</td>
</tr>
<tr>
<td>000553000</td>
<td>K33 Ver. D</td>
<td>20-120</td>
<td>3-12</td>
<td>10</td>
<td>142</td>
<td>T-1BP</td>
<td>2</td>
</tr>
</tbody>
</table>

### PIUSI K33 ATEX MECHANICAL METER – PRODUCT CODE: METER-F00570030-CATA

- Meets ATEX requirements for accurate metering of fluid (petrol, kerosene, diesel fuel) in environments with a high explosion risk;
- Reliable, inexpensive and easy to install and calibrate on site;
- Can be installed in any position on either rigid or flexible pipe work or directly on pumps or tanks;
- Classified as follows: Group II, category 2 G IIB T=85°C (T6);
- Suitable for working in areas classified as 1 and 2 in accordance with directive 99/92/CE flow rate 20-120lpm (5-32gpm);
- Repeatability 0.3% | accuracy + / - 1%
- Nutating disk meter;
- Able to be used in gravity applications due to reduced resistance to flow;
- 3 digit partial totals (max 999 litres), 6 digit totaliser;
- Options for 4 x different flow paths;
- 25mm (1”) BSP female threaded inlet and outlet.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow Direction</th>
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<th>Pressure</th>
<th>Pulser Inlet</th>
<th>Weight</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>F00570000</td>
<td>K33-ATEX Ver. A</td>
<td>20-120</td>
<td>3-12</td>
<td>10</td>
<td>142</td>
<td>T-1BP</td>
<td>2</td>
</tr>
<tr>
<td>F00570100</td>
<td>K33-ATEX Ver. B</td>
<td>20-120</td>
<td>3-12</td>
<td>10</td>
<td>142</td>
<td>T-1BP</td>
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<tr>
<td>F00570200</td>
<td>K33-ATEX Ver. C</td>
<td>20-120</td>
<td>3-12</td>
<td>10</td>
<td>142</td>
<td>T-1BP</td>
<td>2</td>
</tr>
<tr>
<td>F00570300</td>
<td>K33-ATEX Ver. D</td>
<td>20-120</td>
<td>3-12</td>
<td>10</td>
<td>142</td>
<td>T-1BP</td>
<td>2</td>
</tr>
</tbody>
</table>

### PIUSI K44 MECHANICAL METER – PRODUCT CODE: METER-000560000-CATA

- Flow rate 20-120lpm (5-32gpm);
- Repeatability 0.2% | accuracy + / - 1%
- Nutating disk meter;
- Reliable, economical and easy to install and calibrate on site;
- Able to be used in gravity applications due to reduced resistance to flow;
- 4 digit partial totals (max 9999 litres), 7 digit totaliser;
- Options for 4 x different flow paths;
- 25mm (1”) BSP female threaded inlet and outlet.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow Direction</th>
<th>Flow rate</th>
<th>Pressure</th>
<th>Pulser Inlet</th>
<th>Weight</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>000560000</td>
<td>K44 Ver. A</td>
<td>20-120</td>
<td>5-32</td>
<td>10</td>
<td>142</td>
<td>T-1BP</td>
<td>2</td>
</tr>
<tr>
<td>000561000</td>
<td>K44 Ver. B</td>
<td>20-120</td>
<td>5-32</td>
<td>10</td>
<td>142</td>
<td>T-1BP</td>
<td>2</td>
</tr>
<tr>
<td>000562000</td>
<td>K44 Ver. C</td>
<td>20-120</td>
<td>5-32</td>
<td>10</td>
<td>142</td>
<td>T-1BP</td>
<td>2</td>
</tr>
<tr>
<td>000563000</td>
<td>K44 Ver. D</td>
<td>20-120</td>
<td>5-32</td>
<td>10</td>
<td>142</td>
<td>T-1BP</td>
<td>2</td>
</tr>
</tbody>
</table>

### PIUSI K24 ELECTRONIC METER – PRODUCT CODE: METER-F00407000A-CATA

- Digital turbine meters for low viscosity fluids;
- Flow rate up to 120lpm;
- Max pressure rating 20 bar;
- Easy to install, in line or at the end of a delivery pipe, equipped with adjusting screen for easy reading;
- Display can be rotated into 4 x different positions;
- The ideal instrument for controlling fluid dispensing;
- Display can be rotated into 4 x different positions;
- Reliability, economical and easy to install and calibrate on site;
- Nutating disk meter;
- Repeatable 0.2% | accuracy + / - 1%
- Flow rate 20-120lpm (5-32gpm);
- Digital turbine meters for low viscosity fluids;
- Repeatability 0.2% | accuracy + / - 1%
- Nutating disk meter;
- Reliable, economical and easy to install and calibrate on site;
- Able to be used in gravity applications due to reduced resistance to flow;
- 4 digit partial totals (max 9999 litres), 7 digit totaliser;
- Options for 4 x different flow paths;
- 25mm (1”) BSP female threaded inlet and outlet.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow Rate</th>
<th>Pressure</th>
<th>Pulser Inlet</th>
<th>Weight</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>F00407000</td>
<td>K24 Pulser-M 1” BSP</td>
<td>5-120</td>
<td>3-10</td>
<td>T-1BP</td>
<td>0,5</td>
<td>180x180x170</td>
</tr>
<tr>
<td>F00407010</td>
<td>K24 Pulser-MF 1” BSP</td>
<td>5-120</td>
<td>3-10</td>
<td>T-1BP</td>
<td>0,5</td>
<td>180x180x170</td>
</tr>
<tr>
<td>F00407020</td>
<td>K24 Turbine meter M/M 1” BSP</td>
<td>5-120</td>
<td>3-10</td>
<td>T-1BP</td>
<td>0,5</td>
<td>180x180x170</td>
</tr>
<tr>
<td>F00407040</td>
<td>K24 Turbine meter M/MNPT 1” BSP</td>
<td>5-120</td>
<td>3-10</td>
<td>T-1BP</td>
<td>0,5</td>
<td>180x180x170</td>
</tr>
<tr>
<td>F00407025</td>
<td>K24 Turbine meter M/M 1” BSP</td>
<td>5-120</td>
<td>3-10</td>
<td>T-1BP</td>
<td>0,5</td>
<td>180x180x170</td>
</tr>
</tbody>
</table>

### PIUSI K24 A PULSER-M/F 1” BSP

- Digital turbine meters for low viscosity fluids;
- Flow rate up to 120lpm;
- Max pressure rating 20 bar;
- Easy to install, in line or at the end of a delivery pipe, equipped with adjusting screen for easy reading;
- Display can be rotated into 4 x different positions;
- The ideal instrument for controlling fluid dispensing;
- Display can be rotated into 4 x different positions;
- Reliability, economical and easy to install and calibrate on site;
- Nutating disk meter;
- Repeatable 0.2% | accuracy + / - 1%
- Flow rate 20-120lpm (5-32gpm);
- Digital turbine meters for low viscosity fluids;
- Repeatability 0.2% | accuracy + / - 1%
- Nutating disk meter;
- Reliable, economical and easy to install and calibrate on site;
- Able to be used in gravity applications due to reduced resistance to flow;
- 4 digit partial totals (max 9999 litres), 7 digit totaliser;
- Options for 4 x different flow paths;
- 25mm (1”) BSP female threaded inlet and outlet.
PIUSI K700M MECHANICAL METER

- Flow rate 20 – 220 lpm;
- Repeatability 0.2 %;
- Max. operating pressure 10 bar;
- Bursting pressure 30 bar;
- Accuracy +/- 1 %;
- Inlet / outlet – 40mm (1 1/2") Female;
- Choice of BSP or NPT thread;
- Designed to measure the exact quantity of dispensed liquid (fuel or lubricant) for non resale use;
- Reliable, economical and easy to install and calibrate on site.

PIUSI ELECTRONIC METER RANGE

- Oval gear electronic meters in acetal resin for controlling the non commercial dispensing of low, medium and high viscosity fluids including fuel, lubricating oil and other special fluids compatible with construction materials;
- Size range 6mm (1/8”), 15mm (1/2”), 20mm (3/4”), 40mm (1 1/2”), 50mm (2”), 80mm (3”);
- Body with aluminium measuring chamber;
- Inbuilt suction filter (except mod. K400 and K200);
- Raw pulse signal type (reed switch), single channel;
- 5-digit partial total (h=11.5 mm) with floating point from 0.001 to 999.99;
- 8 digit non resettable total (h=5 mm) from 1 to 999 999 999;
- Resettable total;
- Flow rate indication (only mod. K600 and K900);
- Repetitiveness 0.2 %;
- Loss of pressure +/- 5 bar at maximum flow rate.

PIUSI PULSE METER RANGE

- Oval gear pulse meters in acetal resin for measuring low, medium and high viscosity fluids;
- Easy interfacing with control systems makes them the ideal solution for equipping fuel delivery pumps for non resale use in;
- Stationary lubricant transfer/delivery systems, as meters for tank filling arms, for control of burner or power unit fuel consumption and other industrial applications;
- Repetitiveness 0.2 %; Loss of pressure <0.5 bar at max. flow rate. Inbuilt suction filter (not present on models K400 and K200);
- Size range 6mm (1/8”), 15mm (1/2”), 20mm (3/4”), 25mm (1”), 40mm (1 1/2”), 50mm (2”), 80mm (3”);
- Range of flow rates from 0.1 lpm through to 500 lpm;
- Piusi remote display available;
- Pulse meter range is compatible for use with full range of Piusi fluids management systems.
PIUSI REMOTE DISPLAY

- Remote display for remote control (via max. 15 m. cable) of pulse meters;
- The large screen displays the quantity delivered and the non-resettable total;
- Equipped with software applications for calibrating meters;
- Available as both basic display device and as pulse emitter;
- Indispensable for receivers designed to recognise only discreet quantities of impulses;
- The easy interfacing management systems of the pulse transmitter models extend the field of application of pulse meters combined with remote displays.

Technical features:
- Unique display with 5 digit partial total (h=11.5 mm);
- Floating point (0.001 to 99 999);
- 8 digit non-resettable total (h = 5 mm, from 1 to 99 999 999);
- Battery or mains supply;
- Number pulses per litre set at: 1, 2, 10, 20, 50, 100;
- Resettable total available;
- Different measurement unit settings;
- Low battery indication;
- Flow rate indication;
- Weight Kg 1.2;
- Packaging 225 x 125 x 150 mm.

PIUSI

PETRO MECHANICAL METER RANGE

PETRO medium capacity flowmeters provide precise volumetric flow measurement of clean liquids found in a broad range of industries including automotive, aviation, mining, power, chemical, pharmaceutical, food, paint and petroleum. Applications include the distribution of fuels, fuel oils, lubricants, alcohols, solvents, blending of bio and ethanol fuels, metering of chemicals, grease, adhesives, ink, insecticides and non-conductive liquids either pumped or gravity fed.

- High accuracy and repeatability, direct reading flowmeter;
- No requirement for flow conditioning (straight pipe runs);
- All metal rotors standard;
- Measures high and low viscosity liquids;
- Quadrature pulse output option and bi-directional flow;
- Size range 25mm (1"), 40mm (1 ½"), 50mm (2");
- Flow rates:
  - 25mm (1") – 10-120lpm;
  - 40mm (1 ½") – 10-250lpm;
  - 50mm (2") – 15-550lpm;
- Scr BSP female threads;
- 4 digit mechanical register with totaliser;
- Accuracy +/- 0.5%;
- Repeatability generally 0.03%;
- Temperature range -20°C to +120°C;
- Maximum pressure:
  - 25mm (1") – 40 bar (580psi);
  - 40mm (1 ½") – 30 bar (440psi);
  - 50mm (2") – 20 bar (300psi);
- Face to face measurement:
  - 25mm (1") – 177mm;
  - 40mm (1 ½") – 208mm;
  - 50mm (2") – 212mm.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Suitable for pulse meter</th>
<th>Pulser versions</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1175200B</td>
<td>Remote display Pulse out K600</td>
<td>K600 diesel</td>
<td>Pulse Out</td>
</tr>
<tr>
<td>F1175300B</td>
<td>Remote display Pulse out K600/4</td>
<td>K600/4</td>
<td>Pulse Out</td>
</tr>
<tr>
<td>F1175400B</td>
<td>Remote display Pulse out K700</td>
<td>K700</td>
<td>Pulse Out</td>
</tr>
<tr>
<td>F0049501A</td>
<td>Universal display Pulse out</td>
<td>K200, K400, K600 oil, K600 diesel, K600A/K700</td>
<td>Pulse Out</td>
</tr>
<tr>
<td>F0049502A</td>
<td>Display Pulse in</td>
<td>For all Piusi Pulse out remote display</td>
<td>Pulse In</td>
</tr>
<tr>
<td>F0049503B</td>
<td>Display Pulse out UREA</td>
<td>Turboscan/P pulse</td>
<td>Pulse Out</td>
</tr>
</tbody>
</table>

Code Size Flow Range LPM Flow Range GPM E-F Dimension (mm) Accuracy Repeatability Temperature Range (°C) Pressure Rating Bar (psi) Recommended Filtering

- METER-PED5040001-211M3-CATB
  - 25mm (1") – 10-120; 10-240; 10-55; 20-120; 20-240; 20-55; +/- 0.5%; +/- 0.03%; 20 to 120; 10 bar (150 psi); 100 microns (100 mesh);
- METER-PED4040001-211M3-CATB
  - 40mm (1 ½") – 10-250; 10-66; 10-13; 20-250; 20-66; 20-13; +/- 0.5%; +/- 0.03%; 20 to 120; 8 bar (120 psi); 100 microns (100 mesh);
- METER-PED5040001-211M3-CATB
  - 50mm (2") – 15-550; 15-120; 15-32; 30-550; 30-120; 30-32; +/- 0.5%; +/- 0.03%; 20 to 120; 6 bar (90 psi); 100 microns (100 mesh).
The 700 series rotary flow meter has a simple and efficient meter design consisting of a housing and three rotors that rotate in unison within the measuring chamber. The absence of wear, from no metal-to-metal contact inside the chamber, eliminates any deterioration in accuracy and provides a long service life.

The rotors are supported by bearings inserted into two bearing plates, where at the end of each rotor shaft is a timing gear. The timed rotation between each rotor is then transferred through the calibration adjuster to the register, which will then give a consistent and superior measurement of accuracy.

**Specification:**
- Design: three (3) rotors,
- Meter types: SP, SPA, SPD, LP, IC, IP, AF and SS,
- Flow rate: 19 gpm to 2271 gpm,
- Linear accuracy 5:1 turn down - capable of ±0.100% of maximum nominal flow rate,
- 10:1 turn down - capable of ±0.125% of maximum nominal flow rate,
- 15:1 turn down - capable of ±0.150% of maximum nominal flow rate,
- Repeatability 0.05% over 15:1 turn down,
- Pressure 150 PSI (10.5 BAR), 350 PSI (25 BAR)

**Flow Capacity:**
- 40 to 600 GPM (151 to 2271 LPM)
- Flow Capacity: 40 to 200 GPM (151 to 760 LPM)
- Flow Capacity: 20 to 200 GPM (76 to 760 LPM)
- Flow Capacity: 10 to 100 GPM (38 to 380 LPM)
- Flow Capacity: 10 to 25 GPM (38 to 94 LPM)
- Flow Capacity: 2 to 50 GPM (7.6 to 190 LPM)
- Flow Capacity: 0.2 to 50 GPM (0.76 to 190 LPM)

**Features:**
- Superior accuracy over the entire flow range,
- Low maintenance,
- Long service life,
- 75 years of proven performance and acceptance,
- Wide viscosity range - up to 50,000 SSU (11,000 CPS);
- Meets NIST, NMI, OIML, SABS and many other international weights and measures certifications;
- Industry leading 10 year warranty.

**Features:**
- No metal-to-metal contact within the measuring chamber;
- Low pressure drop;
- Low maintenance;
- Long service life;
- Light and compact design;
- Bi-directional flow direction;
- Wide viscosity range - up to 1,500,000 SSU (11,000 CPS);
- Meets NIST, OIML, 5ABS and many other international weights and measures certifications;
- Industry leading 10 year warranty.

**Specifications:**
- Flow rate: 19 gpm to 2271 gpm,
- Linear accuracy 5:1 turn down - capable of ±0.100% of maximum nominal flow rate,
- 10:1 turn down - capable of ±0.125% of maximum nominal flow rate,
- 15:1 turn down - capable of ±0.150% of maximum nominal flow rate,
- Repeatability 0.05% over 15:1 turn down,
- Pressure 150 PSI (10.5 BAR), 350 PSI (25 BAR)

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**Features:**
- Superior accuracy over the entire flow range;
- Low maintenance;
- Long service life;
- 75 years of proven performance and acceptance;
- Wide viscosity range - up to 50,000 SSU (11,000 CPS);
- Meets NIST, NMI, OIML, SABS and many other international weights and measures certifications;
- Industry leading 10 year warranty.
**TCS 3000 ELECTRONIC REGISTER – PRODUCT CODE: TCS3000**

The Total Control Systems TCS3000 electronic register is a fully-integrated flow computer engineered to control all vehicle delivery operations.

The TCS3000 electronic register and flow metering products can improve your cash-flow by allowing the driver to make more deliveries in less time, with increased accuracy and security.

The TCS3000 electronic register was designed for a marketplace that is developing rapidly. With the Open Software Architecture, you have the option of a simple “Pump & Print” delivery or a custom measurement solution. You can upgrade your fleet at any time.

**Features:**
- Large Easy View Colour VGA Display
- Backlit Alpha-Numeric Keypad
- Flexible mounting design allows display to be positioned in a 75° or 90° angle, or remotely mounted from flow meter
- Optional Delivery Screens (Show Only Information You Want To See)
- 4G of Non-Volatile Memory
- Serial Communication: RS232 & RS485
- Open Printer Interface (Slip or Roll Printer, Wireless Printer)
- Single or Multiple Products
- Preset Price or Gallons
- Single or Multiple Point Calibration
- Density or Temperature Correction
- Additive Injection
- Multiple Valve & Pump Control
- Seamlessly integrates into existing fleet without difficulty
- Standard Handheld Interface
- Optional Wireless Communication: Wi-Fi and Bluetooth HS
- Optional GPS Delivery Tracking

TCS3000 software provides you complete flexibility of Ticket Format, Preset, end of Shift Reports, Calibration Reports and Password Protection.

Total Control Systems family of flow measurement products are proudly manufactured in the USA.

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**Electronic Registration**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automation and Controls</td>
<td>PLC or digital controllers for fluid process management. Stock or customised units are available from our UL 508A approved engineered systems.</td>
</tr>
<tr>
<td>MidCom E-Count Electronic Registration</td>
<td>MIDCOM is a leading manufacturer of electronic meter registers, on-board computers and accessories. The most common applications are on propane and petroleum delivery trucks.</td>
</tr>
<tr>
<td>Veeder-Root EMR3 Electronic Registration</td>
<td>Veeder-Root is the leading manufacturer of meter registration products throughout the world, now with the electronic registration EMR1.</td>
</tr>
</tbody>
</table>

**Mechanical Registration**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7887 Register</td>
<td>The 7887 meter register totalizes and displays high speed deliveries and transactions in large, 3½ easy-to-read figures. Displays a 5 digit resettable totalizer and 8 digit non-resettable totalizer.</td>
</tr>
<tr>
<td>7888 Ticket Printer</td>
<td>Meter register and ticket printer combine to produce clean, detailed printed records of high-speed fluid deliveries and transactions.</td>
</tr>
<tr>
<td>7889 Preset Counter</td>
<td>The meter register and preset counter provide automatic preset batch control. The control function will shut-off (2-stage) when predetermined quantity is delivered.</td>
</tr>
<tr>
<td>Microswitch Cutoff</td>
<td>The dry reed (1:1 or 10:1) and solid state (100:1) pulse transmitters provide fast and accurate signaling for remote indication, totalizing and data monitoring systems.</td>
</tr>
<tr>
<td>Pulse Transmitters</td>
<td>This swivel adaptor allows the register to be rotated to any desired angle before delivery or while meter is operating.</td>
</tr>
<tr>
<td>Swivels</td>
<td>Tray switch prevents a pump or valve from turning on until the register counter has been reset. Also used for resetting external digital displays after a transaction is finalized.</td>
</tr>
<tr>
<td>Tray Switch</td>
<td>Veeder-Root is the leading manufacturer of meter registration products throughout the world, now with the electronic registration EMR1.</td>
</tr>
</tbody>
</table>
The Self 3000 is manufactured with a resistant aluminum body enclosed in a anti-shock plastic shell that increases the nozzle’s ease of handling by making the grip comfortable even when used at low temperatures. The nozzle’s integrated swivel connector, and the hammer-free valve inside it, guarantee a high degree of safety.

- Maximum flow rate: 80lpm;
- Supplied with 1” F BSPP integral swivel;
- Max pressure (bar) - 10;
- Spout OD (mm) - 25;
- Body material - aluminium alloy;
- Seal material - HNBR;
- Inlet - 1” F BSPP swivel;
- PRODUCT CODE: NOZZLE-F0065000A-CATA is suitable for diesel and oil;
- PRODUCT CODE: NOZZLE-00065001A-CATA is suitable for petrol.

### DIESEL - Product code: NOZZLE-NOZA.X-CATA
- Automatically shuts-off the flow of fuel when vehicle tank is full;
- 3 position stay open latch, which may be disabled if required;
- 1” BSPF swivel inlet, 3/4” bush available (BSH.4.3A);
- Flow rate 10 - 80,pm. 7 - 58 psi (0.5 - 4.0 bar) pressure;
- Each nozzle is fully wet tested;
- Latch removed on B100 version.

### DIESEL HIGH FLOW - Product code: NOZZLE-NOZA.X25-CATA
- Automatically shuts-off the flow of fuel when vehicle tank is full;
- 3 position stay open latch, which may be disabled if required;
- 1” BSPF swivel inlet, 3/4” bush available (BSH.4.3A);
- Flow rate 80 - 140lpm. 7 - 50 psi (0.5 - 3.5 bar) pressure;
- Each nozzle is fully wet tested;
- Latch removed on B1000 version.

### ULP - Product code: NOZZLE-F00613020-CATA
- Suitable for the dispensing of petrol, kerosene and diesel up to 60lpm;
- Automatically shut off when the tank is full to prevent an overfill situation;
- Supplied with a 1” F BSPP swivel;
- Spout od/20mm.

### DIESEL A280 HIGH SPEED- Product code: NOZZLE-F13249000-CATA
- Suitable for the refuelling of large vehicles and heavy plant equipment;
- Suitable for use with Diesel or biodiesel up to B100;
- Supplied with 1 ½” F BSPP Swivel;
- Max Flow Rate (lpm) - 280;
- Max Pressure (Bar) - 3.5;
- Spout OD (mm) - 38.5.

This new generation nozzle incorporates a number of key design upgrades to further improve the performance, safety, and durability of our nozzles in the market. These upgrades include:

- New carry handle design, incorporating stainless steel for added durability;
- Strengthened operating T-handle;
- Measures to further minimise contamination ingress into the rear chamber of the nozzle, particularly the piston bore;
- A new nozzle body, comprising a stainless steel section at the front for increased durability and improved latching onto the mating fuel receiver;
- Serviceable (replaceable) stainless steel bore sleeve in the rear piston chamber;
- Automatic Shut off;
- Dependable ball locking mechanism;
- Dry break disconnection minimises leakage;
- Manufactured from from metal not plastic.

### Standard 800 Series:

<table>
<thead>
<tr>
<th>Product Title</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard 800 Nozzle - Mining</td>
<td>BNM800M</td>
<td>with medium (default) shut-down pressure (60-75 kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Rail</td>
<td>BNR800M</td>
<td>with medium (default) shut-down pressure (60-75 kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Port - Hydraulic</td>
<td>BNH800M</td>
<td>with medium default shut-down pressure (60-75 kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Mining</td>
<td>BNM800L</td>
<td>with light spring setting (25-35kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Mining</td>
<td>BMN800ML</td>
<td>with medium light spring setting (45-55kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Mining</td>
<td>BMN800MH</td>
<td>with medium heavy spring setting (65-75kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Mining</td>
<td>BMN800MH</td>
<td>with heavy spring setting (90-100kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Rail</td>
<td>BNR800L</td>
<td>with light spring setting (25-35kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Rail</td>
<td>BNR800ML</td>
<td>with medium light spring setting (45-55kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Rail</td>
<td>BNR800MH</td>
<td>with medium heavy spring setting (65-75kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Rail</td>
<td>BNR800H</td>
<td>with heavy spring setting (90-100kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Port - Hydraulic</td>
<td>BNH800L</td>
<td>with light spring setting (25-35kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Port - Hydraulic</td>
<td>BNH800ML</td>
<td>with medium light spring setting (45-55kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Port - Hydraulic</td>
<td>BNH800MH</td>
<td>with medium heavy spring setting (65-75kPa)</td>
</tr>
<tr>
<td>Standard 800 Nozzle - Port - Hydraulic</td>
<td>BNH800H</td>
<td>with heavy spring setting (90-100kPa)</td>
</tr>
</tbody>
</table>
The HYDRAU-FLO® valve system is a safer, cleaner and more reliable fuel filling valve arrangement which removes the risk of overfilling, spillage and tank rupture while minimising safety and environmental hazards associated with fuel transfer.

Using conventional systems, overfilling, spillage and tank rupture can be common occurrences. At 1,000 litres per minute, every second of spillage equates to more than 15 litres of diesel wasted and released into the environment while the cost to repair or replace ruptured fuel tanks is significant in terms of materials, labour and equipment down time.

Features:
- Flows up to 1,000 Lpm;
- Fully mechanical design integrated with hydraulic principles;
- Eliminates blockage and electronics failure;
- Cannot be over-ridden;
- Reduces costs associated with fuel wastage.

HYDRAU-FLO® Valve System:
- Prevents overfilling;
- Prevents fuel spillage and wastage;
- Removes the risk of tank rupture due to pressure build up during and after filling;
- Minimises the risk of fire as a result of fuel spillage;
- Reduces costs associated with fuel wastage and equipment damage;
- Significantly improves safety and environmental outcomes.

HYDRAU-FLO® Pressureless Fill System

PIUSI K500 Preset Nozzle Range

• Once the pre-selected volume has been dispensed, the nozzle automatically closes the valve stopping the dispensing;
• Flow-rates from 1 to 30 lpm;
• Accuracy 0.5%;
• Repeatability 0.2%;

• Viscosity from 5 to 2000 cSt;
• Max. pressure 70 bar;
• Pre-selectable amount (litre): 0.1 min., 99.9 max;
• Dispensed quantity indicators with various measurement units;
• 260° Automatic non drip valve.

Accessories: Flexible spouts

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow Rate (lpm, galpm)</th>
<th>Pressure (bar, psi)</th>
<th>Batteries</th>
<th>Inlet</th>
<th>Weight</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>F00676070</td>
<td>4000 articulable spout</td>
<td>1 ÷ 30</td>
<td>0.26 ÷ 7.8</td>
<td>70, 994</td>
<td>4/12BP</td>
<td>1.8</td>
<td>300 x 160 x 150</td>
</tr>
<tr>
<td>F00676080</td>
<td>4000 rigid spout</td>
<td>1 ÷ 30</td>
<td>0.26 ÷ 7.8</td>
<td>70, 994</td>
<td>4/12BP</td>
<td>1.8</td>
<td>300 x 160 x 150</td>
</tr>
<tr>
<td>F00676090</td>
<td>4000 flexible spout</td>
<td>1 ÷ 30</td>
<td>0.26 ÷ 7.8</td>
<td>70, 994</td>
<td>4/12BP</td>
<td>1.8</td>
<td>300 x 160 x 150</td>
</tr>
<tr>
<td>F00676100</td>
<td>4000 articulable spout</td>
<td>1 ÷ 30</td>
<td>0.26 ÷ 7.8</td>
<td>70, 994</td>
<td>4/12BP</td>
<td>1.8</td>
<td>300 x 160 x 150</td>
</tr>
</tbody>
</table>
PIUSI K40 NOZZLE RANGE

- Nozzle with mechanical meter for dispensing of oil
- The K40 is a compact, reliable, lightweight nozzle for controlling oil deliveries in the most varying conditions of use
- Meters with oval gears, gears in acetal resin
- Mechanical counter with resettable batch total

Performance
- Repeatability 0.2%
- Loss of pressure: 0.7 bar
- Max. pressure: 70 bar
- Bursting pressure: 210 bar

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow Rate</th>
<th>Pressure</th>
<th>Batteries</th>
<th>Inlet</th>
<th>Outlet</th>
<th>Weight</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>F00490020</td>
<td>K40 mechanical oil meter</td>
<td>1 ÷ 30</td>
<td>0,3 ÷ 8</td>
<td>2</td>
<td>1/2&quot; BSP</td>
<td>1/2&quot; BSP</td>
<td>0,78</td>
<td>160 x 115 x 135</td>
</tr>
<tr>
<td>F00490010</td>
<td>K40 mechanical oil meter</td>
<td>1 ÷ 30</td>
<td>0,3 ÷ 8</td>
<td>2</td>
<td>1/2&quot; NPT</td>
<td>1/2&quot; NPT</td>
<td>0,78</td>
<td>160 x 115 x 135</td>
</tr>
<tr>
<td>F00490100</td>
<td>K40 nozzle LT/BSP</td>
<td>1 ÷ 30</td>
<td>0,3 ÷ 8</td>
<td>2</td>
<td>1/2&quot; BSP</td>
<td>1/2&quot; BSP</td>
<td>1,25</td>
<td>345 x 165 x 120</td>
</tr>
<tr>
<td>F00490110</td>
<td>K40 nozzle QT/NPT</td>
<td>1 ÷ 30</td>
<td>0,3 ÷ 8</td>
<td>2</td>
<td>1/2&quot; NPT</td>
<td>1/2&quot; NPT</td>
<td>1,25</td>
<td>345 x 165 x 120</td>
</tr>
</tbody>
</table>

PIUSI K400 NOZZLE RANGE

- Nozzle with electronic meter;
- The K400 can be integrated with nozzle to create a handy, ergonomic nozzle for controlling and managing the dispensing of oil
- Meter body in die-cast aluminium to withstand high pressure
- Mechanical counter with resettable batch total;
- Multifunction display: 5 digit partial total, Resettable total and calibration available. Low battery icon.

Performance
- Repeatability 0.2%
- Loss of pressure: 0.7 bar
- Max. pressure: 70 bar
- Bursting pressure: 140 bar

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow Rate</th>
<th>Pressure</th>
<th>Batteries</th>
<th>Inlet</th>
<th>Outlet</th>
<th>Weight</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>F0047500A</td>
<td>K400 electronic oil meter</td>
<td>1 ÷ 60</td>
<td>1,5 ÷ 15</td>
<td>2</td>
<td>1&quot; BSP</td>
<td>1&quot; BSP</td>
<td>0,5</td>
<td>80 x 80 x 75</td>
</tr>
<tr>
<td>F0047600A</td>
<td>K400 nozzle LT/BSP</td>
<td>6 ÷ 60</td>
<td>1,5 ÷ 15</td>
<td>2</td>
<td>1/2&quot; BSP</td>
<td>1/2&quot; BSP</td>
<td>1,2</td>
<td>203 x 208 x 88</td>
</tr>
<tr>
<td>F0047700A</td>
<td>K400 nozzle QT/NPT</td>
<td>6 ÷ 60</td>
<td>1,5 ÷ 15</td>
<td>2</td>
<td>1/2&quot; NPT</td>
<td>1/2&quot; NPT</td>
<td>1,2</td>
<td>203 x 208 x 88</td>
</tr>
<tr>
<td>F0047800A</td>
<td>K400 nozzle LT/BSP with flex ext.</td>
<td>6 ÷ 60</td>
<td>1,5 ÷ 15</td>
<td>2</td>
<td>1/2&quot; BSP</td>
<td>Ext. flex</td>
<td>1,5</td>
<td>203 x 208 x 88</td>
</tr>
<tr>
<td>F0047900A</td>
<td>K400 nozzle QT/NPT with flex ext.</td>
<td>6 ÷ 60</td>
<td>1,5 ÷ 15</td>
<td>2</td>
<td>1/2&quot; NPT</td>
<td>Ext. flex</td>
<td>1,5</td>
<td>203 x 208 x 88</td>
</tr>
<tr>
<td>F0048000A</td>
<td>Rubber protection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

PIUSI K600 NOZZLE RANGE

- Nozzle range with electronic meter for high flow rate oil;
- Flow rate up to 30 lpm
- Electronic meter with oval gears with acetal resin gears, for controlling and measuring low, medium and high viscosity fluids
- The oval gear measuring system provides an extremely precise delivery accompanied by a low pressure drop.

Performance
- Repeatability 0.2%
- Pressure drop: 1.0 bar at 30 lpm
- Max. pressure: 70 bar
- Bursting pressure: 140 bar

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow Rate</th>
<th>Pressure</th>
<th>Batteries</th>
<th>Inlet</th>
<th>Outlet</th>
<th>Weight</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>F00970001</td>
<td>K600 nozzle LT/BSP with rigid ext.</td>
<td>6 ÷ 60</td>
<td>1,5 ÷ 15</td>
<td>2</td>
<td>1/2&quot; BSP</td>
<td>1/2&quot; BSP</td>
<td>2,3</td>
<td>945 x 165 x 120</td>
</tr>
<tr>
<td>F00970011</td>
<td>K600 nozzle LT/BSP with flex ext.</td>
<td>6 ÷ 60</td>
<td>1,5 ÷ 15</td>
<td>2</td>
<td>1/2&quot; BSP</td>
<td>1/2&quot; BSP</td>
<td>2,6</td>
<td>945 x 165 x 120</td>
</tr>
<tr>
<td>F00970021</td>
<td>K600 nozzle QT/NPT with rigid ext.</td>
<td>6 ÷ 60</td>
<td>1,5 ÷ 15</td>
<td>2</td>
<td>1/2&quot; NPT</td>
<td>1/2&quot; NPT</td>
<td>2,3</td>
<td>945 x 165 x 120</td>
</tr>
<tr>
<td>F00970031</td>
<td>K600 nozzle QT/NPT with flex ext.</td>
<td>6 ÷ 60</td>
<td>1,5 ÷ 15</td>
<td>2</td>
<td>1/2&quot; NPT</td>
<td>1/2&quot; NPT</td>
<td>2,6</td>
<td>945 x 165 x 120</td>
</tr>
</tbody>
</table>

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PIUSI EASYOIL NOZZLE RANGE

- The “Easyoil” is a new dispensing nozzle specifically designed for lubrication industry;
- Aluminum body is resistant to high pressure;
- Plastic, anti-shock handgrip is available in several colours;
- Balanced valve reduces pressure on the trigger;
- ½”BSP Inet;
- Trigger locking mechanism / integrated mesh filter.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Spout</th>
<th>Flexible</th>
<th>Inlet</th>
<th>Weight</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>F0096600A</td>
<td>Easyoil FF 1/2” BSP</td>
<td>Rigid</td>
<td>-</td>
<td>1/2” BSP</td>
<td>0.45</td>
<td>203 x 320 x 88</td>
</tr>
<tr>
<td>F00966130</td>
<td>Easyoil + Swivel 1/2” Rigid spout</td>
<td>Rigid</td>
<td>-</td>
<td>1/2” BSP</td>
<td>1.2</td>
<td>203 x 320 x 88</td>
</tr>
<tr>
<td>F00966140</td>
<td>Easyoil + Swivel 1/2” Flexible spout</td>
<td>Flexible</td>
<td>-</td>
<td>1/2” BSP</td>
<td>1.5</td>
<td>203 x 320 x 88</td>
</tr>
</tbody>
</table>

Accessories:

- Mod. BSP B/P with automatic no-drip valve
  Code: F0067000A

- Mod. BSP LF with manual no-drip valve
  Code: 000398000

- Mod. BSP HF with manual no-drip valve
  Code: 00034000

FLOW RATE

- Rigid spout: 30 ml/stroke
- Flexible spout: 17 ml/stroke

Features:

- 1/2” BSP inlet
- Trigger locking mechanism
- Integrated mesh filter

LEVER ACTION BARREL HAND PUMP – PRODUCT CODE: 44100-CATA

- Our most popular hand pump design, engineered for professional use;
- Premium powder coated steel pump body with ribbed section aluminum die cast pump head for maximum strength;
- Built-in 1½” and 2” bung for use on drums with either size opening;
- Plated steel lever handle with rubber grip for convenience;
- Wear resistant brass piston rings fitted onto zinc die cast piston;
- Supplied with:
  - Telescopic suction tube;
  - 1½” and 2” bung;
  - Steel body;
  - Die cast pump head;
  - Zinc piston and brass piston rings;
  - NBR seals;
- Fits 50-208 litre drums.

VERTICAL LIFT HAND PUMP – PRODUCT CODE: 44130-CATA

- Self priming high volume vertical lift pump for use with a wide variety of lubricants;
- Steel construction with aluminum die cast head, steel plunger rod and PTFE seals;
- Piston is made from zinc with wear resistant brass piston rings;
- Supplied with:
  - Cast iron bung nut for 2” openings;
  - All steel zinc plated pump tube;
  - Plastic T type plunger rod handle;
  - Zinc die cast piston with brass piston rings;
- Recommended for use with lubricants;
- Fits 50-208 litre drums.

CHEMICAL VERTICAL LIFT HAND PUMP – PRODUCT CODE: 44192-CATA

- Self priming vertical lift pump designed for use with antifreeze, detergents etc;
- Polypropylene construction with steel plunger rod and viton seals;
- Supplied with:
  - 2” bung;
  - Polypropylene with steel plunger rod and viton seals;
- Delivers 400 ml per stroke;
- Suitable for 50-208 litre drums.
FLO HAND PUMP – PRODUCT CODE: 44183-CATA

• Versatile Pump, engineered for trouble free use on 5 gallon / 20-25 litre containers with plastic pull out (Riek® spout) or 2” external threads;
• Down-stroke operation with fluid discharge when pushing the handle down;
• Enhanced ease of use and reduced fatigue especially when pumping heavy fluids;
• Reduced pull out stress on the pump bung;
• Heavy duty steel suction tube;
• High density polyethylene pump head;
• Pump head incorporates nozzle holder and option to drain back over flowed fluid into the container;
• Interchangeable bung adaptors. The standard bung adaptors can be slid over the pump, when using on containers with external threading;
• Choice of 7 adaptors makes the pump suitable for use with most metal and plastic containers;
• Pump length can be extended by over 4” for use on deeper containers, by conveniently sliding the suction tube extender;
• Supplied with:
  • Bung adaptors for use with Metal and Plastic Drums;
  • 3.6m long PVC Hose with spring guard and steel discharge spout.

NYLON CHEMICAL VERTICAL LIFT HAND PUMP – PRODUCT CODE: 44193-CATA

• Self priming vertical lift pump designed primarily for use with lacquer thinners, Urea, DEF etc;
• Nylon construction with stainless steel plunger rod and PTFE seals;
• Supplied with:
  • 2” bung;
  • Nylon with stainless steel plunger rod;
  • Teflon seals;
• Delivers 400 ml per stroke;
• Suitable for 50-208 litre drums.

ROTARY HAND PUMP – PRODUCT CODE: 44052-CATA

• Our most commonly used pump worldwide;
• Dual directional operation – can empty and refill containers;
• Extremely heavy duty and rugged weighing 6.6 kgs (14.5 lbs);
• Pump body is sturdy cast iron with precisely machined cast iron vanes for better draw and smoother delivery;
• Fits 15 gallons (50 litre) to 55 gallons (208 litre) drums;
• Supplied with:
  • 3 pc suction tube;
  • 2” bung nut.

HAND PUMP DRIP TRAY – PRODUCT CODE: 44076-CATA

• A must have accessory with every drum pump; the drip pan fits into any 2” threaded opening on a drum, barrel or tank;
• Used as a drain for returning over flown media back to the drum;
• It additionally works as a base for holding a container during dispensing;
• Keeps work place clean & eliminates wastage, saving money each time the pump is used;
• Designed with a built-in 2” bung adaptor and strainer for draining clean media back into the drum;
• Cast aluminium body;
• Supplied with:
  • 2” Bung Adapter
  • 2” internal threads to fit all pumps with a 2” bung;
• Design allows any pump with a 2” bung to fit onto the Drip Pan.

CHEMICAL ROTARY HAND PUMP – PRODUCT CODE: 44191-CATA

• Designed for use with liquids with which a regular cast iron or steel barrel pump cannot be used;
• Pump body is made from glass filled polypropylene with nylon veins;
• All seals are from viton and all pump hardware is stainless steel;
• Strainer fitted at the suction tube inlet stops contaminants from entering the pump;
• Supplied with:
  • Bung with 2” external threads;
  • 2 pc threaded polypropylene suction tube;
• Suitable for 50-208 litre drums;
• Dispenses 5 litres per 20 turns.

ROTARY HAND PUMP – PRODUCT CODE: 44082-CATA

• New industry standard for rotary hand pumps;
• Ideal for tough outdoor use in extreme weather conditions;
• Suitable for a head lift of up to 6m;
• Solid cast iron construction, fully CNC machined to close tolerances;
• High quality sintered powder metal 3 vane rotor inside a highly finished pumping chamber;
• Graphite vanes are self lubricating and non wearing;
• Graphite seal allows the pump to be used with a wide variety of fluids;
• Self Priming operation with discharge up to 38 LPM (10 GPM);
• Supplied with:
  • 2” Bung;
  • Telescopic Suction Tube with Strainer.
HIGH FLOW ROTARY HAND PUMP – PRODUCT CODE: 44198-CATA

- 3:1 geared high flow rotary hand pump;
- For every complete handle turn, the rotor turns 3 times;
- Ideal for use where volume fuel dispensing is needed, such as construction sites, workshop, aviation, farms / ranches, etc;
- Die cast aluminum construction with sintered gear driven die cast zinc rotor and vanes;
- Discharge through 1.6 m of delivery hose with metal nozzle;
- Supplied with:
  - 3 pc steel suction tube;
  - 2” bung adaptor;
  - Premium hose assembly.

PIUSI ROTARY HAND PUMP – PRODUCT CODE: F00332500

It is the new Benchmark due to its:
- Suction capacity: self-priming with easy and immediate dispensing;
- Capacity: 38 litres per 100 revolutions;
- The manufacturing tolerances along with the wear-resistant materials guarantee many years of perfect operation;
- Sturdy construction for Professional Use.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Capacity per 100 Revolutions L</th>
<th>Drum Connection</th>
<th>Suction Tube</th>
<th>“S” Spout and Hose Tail</th>
<th>Delivery Hose Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>F00332500</td>
<td>PIUSI Hand Pump 2” BSP</td>
<td>38</td>
<td>2” BSP</td>
<td>Yes</td>
<td>Yes</td>
<td>-</td>
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<tr>
<td>F00332520</td>
<td>PIUSI Hand Pump 2” BSP with Hose</td>
<td>38</td>
<td>2” BSP</td>
<td>Yes</td>
<td>Yes</td>
<td>3</td>
</tr>
</tbody>
</table>

FILL-RITE ROTARY HAND PUMP – PRODUCT CODE: FR112

This compact, high flow, dual-action design delivers up to 76 litres per 100 strokes.
Lightweight and portable, with a variety of options, these pumps meet a full range of applications.
- Telescopic steel suction pipe;
- 76 litres per 100 strokes;
- UL listed;
- Supplied complete with 2.4m of UL listed hose with static wire;
- Aluminium spout;
- Yoke handle design;
- Vacuum breaker;
- Suitable for medium viscosity fluids including gasoline, diesel, kerosene and lubricants up to SAE30

FILL-RITE PISTON HAND PUMP – PRODUCT CODE: FR152

The Fill-Rite FR112 Rotary Hand Pump is especially effective with medium viscosity liquids as well as oils, gasoline and diesel fuels, the rotary action of these easy-to-use pumps allows smooth, continuous transfer at up to 38 litres per 100 revolutions.
- Aluminium body with cast iron rotor;
- Telescopic steel suction pipe;
- 38 litres per 100 revolutions;
- UL listed;
- Supplied complete with 2.4m of UL listed hose with static wire;
- Aluminium spout;
- Check valve;
- Vacuum breaker
PIUSI PITSTOP – 12V DC / 24V DC

- Piusi Pitstop 12V DC 45lpm portable diesel fuel dispensing unit
- Easy to install, versatile and compact unit perfect for use with both mobile and fixed tanks;
- Easy to install, versatile, compact, necessary to complete mobile or fixed tanks.

PIUSI PITSTOP DC consists of:
- Hose reel;
- Side safety guards;
- Adjustable arms with end-of-travel hose stop;
- Diesel hose 3/4"-15m, optional 1" x 10m hose available;
- On/off switch;
- Suction;
- Automatic nozzle;
- 12 Volt DC pumps;
- Sturdy metal supporting structure;
- Provision to fit Piusi water absorption filter (optional extra).

OPTIONAL: Digital Meter K24

PIUSI PANTHER – 12V DC / 24V DC

- Portable diesel transfer unit;
- Self-priming electric vane pump run by a 12V or 24V DC electric motor;
- Cast iron body, fixed brush motor with permanent magnet stator;
- Terminal board with switches and fuses to protect against overload;
- 2 meter cables with clips for battery connection;
- 4 meter fuel hose, diameter 3/4";
- Aluminium manual nozzle;
- Bottom suction filter;
- Suction capacity up to 2 metres.

PIUSI BATTERY KIT – 12V DC / 24V DC

- Transfer pump range;
- Rotary, self priming, vane pumps featuring high flow rates, and easy operation and installation;
- The 12V / 24V version can be used with both voltages;
- Vane pump with rotor;
- Mechanical seal;
- Incorporated by-pass valve;
- Connector block with on/off switch;
- 100 μ filter incorporated in the pump body, easy access for maintenance;
- Threaded 1” connectors.

---

**PIUSI PITSTOP – 12V DC - PRODUCT CODE: F00212000**

- Filter
- Flow rate
- Power
- Hose
- Swivel
- Manual
- Gloves
- Vane pump with rotor
- Self-priming electric vane pump run by a 12V or 24V DC electric motor
- Portable diesel transfer unit
- Suction capacity up to 2 metres
- Bottom suction filter
- Aluminium manual nozzle
- Bottom suction filter
- Suction capacity up to 2 metres

**PIUSI PANTHER – 12V DC / 24V DC**

- Transfer pump range;
- Rotary, self priming, vane pumps featuring high flow rates, and easy operation and installation;
- The 12V / 24V version can be used with both voltages;
- Vane pump with rotor;
- Mechanical seal;
- Incorporated by-pass valve;
- Connector block with on/off switch;
- 100 μ filter incorporated in the pump body, easy access for maintenance;
- Threaded 1” connectors.

---

**PIUSI BATTERY KIT – 12V DC / 24V DC**

- Transfer pump range;
- Rotary, self priming, vane pumps featuring high flow rates, and easy operation and installation;
- The 12V / 24V version can be used with both voltages;
- Vane pump with rotor;
- Mechanical seal;
- Incorporated by-pass valve;
- Connector block with on/off switch;
- 100 μ filter incorporated in the pump body, easy access for maintenance;
- Threaded 1” connectors.

---

**PIUSI PUMPS DIESEL**

PIUSI PITSTOP – 12V DC

- Filter
- Flow rate
- Power
- Hose
- Swivel
- Manual
- Gloves
- Vane pump with rotor
- Self-priming electric vane pump run by a 12V or 24V DC electric motor
- Portable diesel transfer unit
- Suction capacity up to 2 metres
- Bottom suction filter
- Aluminium manual nozzle
- Bottom suction filter
- Suction capacity up to 2 metres

PIUSI PANTHER – 12V DC / 24V DC

- Transfer pump range;
- Rotary, self priming, vane pumps featuring high flow rates, and easy operation and installation;
- The 12V / 24V version can be used with both voltages;
- Vane pump with rotor;
- Mechanical seal;
- Incorporated by-pass valve;
- Connector block with on/off switch;
- 100 μ filter incorporated in the pump body, easy access for maintenance;
- Threaded 1” connectors.

---

**PIUSI BATTERY KIT – 12V DC / 24V DC**

- Transfer pump range;
- Rotary, self priming, vane pumps featuring high flow rates, and easy operation and installation;
- The 12V / 24V version can be used with both voltages;
- Vane pump with rotor;
- Mechanical seal;
- Incorporated by-pass valve;
- Connector block with on/off switch;
- 100 μ filter incorporated in the pump body, easy access for maintenance;
- Threaded 1” connectors.

---

**PIUSI PUMPS DIESEL**
PUMPS DIESEL

PIUSI BI-PUMP – 12V / 24V and Dual 12V / 24V Models

Positive displacement, rotary vane range of pumps for transferring diesel fuel, characterised by high flow rates. Available in 12 and 24 Volt versions, dual voltage version available.

Technical features:
- Vane pump with rotor;
- By-pass valve incorporated into the pump body;
- Duty cycle of 30 min;
- Integrated on/off switch;
- Flanged 1" connectors;
- IPPS weather protected

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>I/O</th>
<th>Flow rate</th>
<th>DC</th>
<th>I/O</th>
<th>DC</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>F003630B0A</td>
<td>In pump 12V with on/off switch</td>
<td>85</td>
<td>22.4</td>
<td>4</td>
<td>5</td>
<td>2000</td>
<td>9.9</td>
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<tr>
<td>F0036302B0A</td>
<td>In pump 24V with on/off switch</td>
<td>85</td>
<td>22.4</td>
<td>4</td>
<td>21</td>
<td>30</td>
<td>2000</td>
</tr>
<tr>
<td>F0036301A0A</td>
<td>In pump 12V with cable 2m</td>
<td>85</td>
<td>22.4</td>
<td>2</td>
<td>4</td>
<td>2000</td>
<td>10.2</td>
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<tr>
<td>F0036301B0A</td>
<td>In pump 12V with cable 4m</td>
<td>85</td>
<td>22.4</td>
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<td>21</td>
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<td>2000</td>
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<tr>
<td>F0036304A0A</td>
<td>In pump 24V with cable 2m</td>
<td>85</td>
<td>22.4</td>
<td>2</td>
<td>21</td>
<td>30</td>
<td>2000</td>
</tr>
<tr>
<td>F0036304B0A</td>
<td>In pump 24V with cable 4m</td>
<td>85</td>
<td>22.4</td>
<td>2</td>
<td>21</td>
<td>30</td>
<td>2000</td>
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<tr>
<td>R14334000</td>
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<td>-</td>
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<tr>
<td>R14335000</td>
<td>Kit cable 4m</td>
<td>0.7</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>R14200000</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
</tbody>
</table>

PIUSI ST200 – 24V DC and 110V / 240V AC options

The ST200 diesel pump is a portable diesel dispensing unit, designed to provide the user with safe and quick refueling.

- Flow rate of up to 200 lpm;
- These diesel transfer pumps also allow for the installation of an oval-gear flow meter, which measures the fuel dispensed with great accuracy;
- Featuring a sturdy steel frame, the ST200 is extremely durable and practical for use;
- 110V / 230V version available with portable kit including trolley and handle assembly;
- 110 / 230V version – twin 120E Panther pumps factory mounted within heavy duty frame. Supplied with electrical control switch;
- 24V version – 4 x 56lpm Panther pumps factory mounted with common suction and delivery manifold. Supplied with electrical control switch.

PIUSI CUBE – 12V / 24V / 110V and 230V Options

- Diesel fuel dispenser for non commercial use;
- Study structure designed for different applications: can be fixed to walls, tank cisterns, drums, special pedestals;
- Self-priming vane pump fitted with bypass, installed on anti-vibration supports;
- Mechanical seal induction motor fitted with thermal motor overload protection;
- Automatic nozzle with swivel connection;
- Integrated nozzle holder with stop/start pump lever;
- Intake mesh filter;
- Natura-disk displacement flow meter with mechanical readout system.

Code | Description | Pump mod. | Flow Rate lpm | AC Volt/Hz | DC Volt | Watt | Inlet | BSP | Handle | Weight |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>F005750IC</td>
<td>Cube 15</td>
<td>Panther 15</td>
<td>56</td>
<td>15</td>
<td>230/50</td>
<td>-</td>
<td>960</td>
<td>K55</td>
<td>1&quot;</td>
<td>4m</td>
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<tr>
<td>F00575A20</td>
<td>Cube 15/12V</td>
<td>Panther 15</td>
<td>56</td>
<td>15</td>
<td>120/60</td>
<td>-</td>
<td>550</td>
<td>K55</td>
<td>1&quot;</td>
<td>4m</td>
</tr>
<tr>
<td>F005780IC</td>
<td>Cube 25-230/120</td>
<td>Panther 25</td>
<td>70/18</td>
<td>230/50</td>
<td>-</td>
<td>1100</td>
<td>K55</td>
<td>1 1/2&quot;</td>
<td>8m</td>
<td>8/8</td>
</tr>
<tr>
<td>F005735</td>
<td>Cube 56/35</td>
<td>Panther 56</td>
<td>56</td>
<td>15</td>
<td>110/50</td>
<td>-</td>
<td>500</td>
<td>K55</td>
<td>1 1/2&quot;</td>
<td>8m</td>
</tr>
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<td>F005790</td>
<td>Cube 56/35</td>
<td>Panther 56</td>
<td>56</td>
<td>15</td>
<td>120/60</td>
<td>-</td>
<td>500</td>
<td>K55</td>
<td>1 1/2&quot;</td>
<td>8m</td>
</tr>
<tr>
<td>F005760</td>
<td>Cube 56 DC</td>
<td>Panther 56</td>
<td>56</td>
<td>15</td>
<td>230/50</td>
<td>-</td>
<td>960</td>
<td>K55</td>
<td>1&quot;</td>
<td>4m</td>
</tr>
<tr>
<td>F005770</td>
<td>Cube 70 DC / 24V</td>
<td>Panther 70</td>
<td>70</td>
<td>18</td>
<td>24/12</td>
<td>50x360</td>
<td>K55</td>
<td>1&quot;</td>
<td>4m</td>
<td>4/4</td>
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<tr>
<td>F005740</td>
<td>Cube 70/35</td>
<td>Panther 70</td>
<td>70</td>
<td>18</td>
<td>230/50</td>
<td>-</td>
<td>550</td>
<td>K55</td>
<td>1&quot;</td>
<td>6m</td>
</tr>
<tr>
<td>F0059120</td>
<td>Cube 70/33 + Filter</td>
<td>70</td>
<td>18</td>
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<td>-</td>
<td>550</td>
<td>K55</td>
<td>1&quot;</td>
<td>6m</td>
<td>6/4</td>
</tr>
</tbody>
</table>

PIUSI CUBE 90 – Product code: F00592000-CATA

The Piusi Cube 90 diesel transfer pump has been developed to have a higher flow and is therefore a 90lpm version of the industry renowned Piusi Cube 56 & Cube 70 Fuel Dispensers.

- Studly structure designed for different applications: can be fixed to walls, tanks, cisterns, drums, special pedestals;
- For non commercial use;
- 30 minute duty cycle;
- Self-priming vane pump fitted with bypass, installed on anti-vibration supports;
- Mechanical seal induction motor fitted with thermal motor overload protection;
- Nutating disk displacement flow meter with mechanical readout system;
- Automatic nozzle with swivel connection;
- Integrated nozzle holder with stop/start pump lever;
- Intake mesh filter.

Accessories:

- Kit Wall Support Code R1737000
- 2" Quick Coupling Code R08930000
- 2" Drum Connector with integrated valve Code F1716800

Pedestal (optional) Code F1720800C

Code | Description | Pump mod. | Flow Rate lpm | AC Volt/Hz | DC Volt | Watt | Inlet | BSP | Handle | Weight |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>F00592000</td>
<td>Cube 50</td>
<td>Panther 50</td>
<td>90</td>
<td>21,8</td>
<td>24/12</td>
<td>700</td>
<td>55</td>
<td>644</td>
<td>1&quot;</td>
<td>4m</td>
</tr>
</tbody>
</table>

PUMPS

PIUSI CUBE 90

PIUSI BI-PUMP

PIUSI ST200

PIUSI CUBE

PIUSI CUBE 90

PIUSI ST200

PIUSI CUBE 90

PIUSI BI-PUMP

PIUSI ST200

PIUSI CUBE 90

PIUSI BI-PUMP

PIUSI ST200

PIUSI CUBE 90
PIUSI PANTHER – 110V / 230V PUMP RANGE

- Positive displacement, self-priming rotary electric vane range of pumps;
- Fitted with by-pass valve and elevated reliability seal even at low working temperatures;
- Compact and easy to install they are ideal for dispensers, fixed fuel transfer systems and other industrial applications;
- Sturdy cast iron structure; vane pump with sintered steel rotor and acetal resin vanes, induction motor with aluminium casing;
- Suitable for continuous use with thermal motor overload protection.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow rate</th>
<th>Bypass valve</th>
<th>Single phase motor Volts/Hz</th>
<th>Three phase motor Volts/Hz</th>
<th>Watt</th>
<th>I/O (BSP)</th>
<th>Inlet filter</th>
<th>Max.</th>
<th>Packaging (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>003025000</td>
<td>E 80 M</td>
<td>199x355x270</td>
<td>75 230/50</td>
<td>-</td>
<td>750</td>
<td>1400</td>
<td>1&quot;</td>
<td>-</td>
<td>14</td>
<td>195x355x270</td>
</tr>
<tr>
<td>003026000</td>
<td>E 80 M (120V)</td>
<td>181x355x270</td>
<td>75 230/50</td>
<td>-</td>
<td>750</td>
<td>1400</td>
<td>1&quot;</td>
<td>-</td>
<td>14</td>
<td>195x355x270</td>
</tr>
<tr>
<td>003027000</td>
<td>E 80 T</td>
<td>199x355x270</td>
<td>75 230/50</td>
<td>-</td>
<td>750</td>
<td>1400</td>
<td>1&quot;</td>
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<td>14</td>
<td>195x355x270</td>
</tr>
<tr>
<td>003028000</td>
<td>E 80 T (120V)</td>
<td>181x355x270</td>
<td>75 230/50</td>
<td>-</td>
<td>750</td>
<td>1400</td>
<td>1&quot;</td>
<td>-</td>
<td>14</td>
<td>195x355x270</td>
</tr>
<tr>
<td>003029000</td>
<td>E 80 M (110V)</td>
<td>181x355x270</td>
<td>75 230/50</td>
<td>-</td>
<td>750</td>
<td>1400</td>
<td>1&quot;</td>
<td>-</td>
<td>14</td>
<td>195x355x270</td>
</tr>
<tr>
<td>003030000</td>
<td>E 80 T (110V)</td>
<td>181x355x270</td>
<td>75 230/50</td>
<td>-</td>
<td>750</td>
<td>1400</td>
<td>1&quot;</td>
<td>-</td>
<td>14</td>
<td>195x355x270</td>
</tr>
</tbody>
</table>

PIUSI E 240V AC 550LPM PIUSI E300 – PRODUCT CODE: F00321000-CATA

- High flow rate self-priming electric pump with open impeller for diesel fuel transfer applications;
- Free Flow Rate up to 550lpm (132gpm);
- Check valve incorporated in the suction port prevents the siphon effect and ensures automatic repriming;
- Max working pressure: 10 bar;
- Continuous duty with 230 Vac power supply - option for 110V AC;
- Cast iron impeller;
- IP44 protection;
- Single phase
  - Power 1500 watt / 9.2 amp draw.

The PIETRO range of fuel transfer pumps offer high performance and reliability. Viton seals ensure safe leak free transfer of most aggressive chemicals.
- Honda petrol or Yanmar diesel engines;
- Primers fast from 7.6 metres;
- Single piece, heavy duty closed or open impeller;
- Replaceable flanged suction port & discharge elbow;
- Big belly body – for fast priming & extra performance;
- For conversion of outlet to 2", to optimise performance, order 2" delivery elbow (QP1830-0000X);
- Marine grade aluminium body;
- Pump flanged to engine, close coupled for compact design;
- Easy access priming port.

Fuel Chef Portable Option

Pump Protection
Pressure relief valve Q079008-3408
Siphon protection Q078910
8 BAR, suits QP205SE high pressure pumps.

Spark Arrester Options

### Yanmar Basic - 3 Way Outlet, Full Frame

<table>
<thead>
<tr>
<th>Model</th>
<th>S/code</th>
<th>Engine Make</th>
<th>HP</th>
<th>Pump PSI</th>
<th>Max Flow (lpm)</th>
<th>Max Head (m)</th>
<th>Suction port</th>
<th>Discharge ports</th>
<th>Self primes to (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Chief Basic (QP205SE)</td>
<td>QP205S/205SV250/160 (electric start, skids &amp; handle)</td>
<td>HONDA</td>
<td>4.8</td>
<td>85</td>
<td>60</td>
<td>40</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>1.5</td>
</tr>
<tr>
<td>Fuel Master 2 Honda (QP209)</td>
<td>QP209/GX160NVT (electric start, roll frame)</td>
<td>HONDA</td>
<td>4.8</td>
<td>85</td>
<td>60</td>
<td>40</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>1.5</td>
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<tr>
<td>Fuel Master 3 Honda (QP309)</td>
<td>QP309/GX160NVT (electric start, roll frame)</td>
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<td>52</td>
<td>100</td>
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</table>

### Yanmar Remote Start Option - Solenoid Start/Stop, 3 Way Outlet, Full Frame

<table>
<thead>
<tr>
<th>Model</th>
<th>S/code</th>
<th>Engine Make</th>
<th>HP</th>
<th>Pump PSI</th>
<th>Max Flow (lpm)</th>
<th>Max Head (m)</th>
<th>Suction port</th>
<th>Discharge ports</th>
<th>Self primes to (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Chief Remote (QP205SE)</td>
<td>QP205S/1488/250/110 (electric start)</td>
<td>HONDA</td>
<td>4.8</td>
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<td>60</td>
<td>40</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>1.5</td>
</tr>
<tr>
<td>Fuel Master Remote (QP209)</td>
<td>QP209/1488/250/110 (electric start)</td>
<td>HONDA</td>
<td>4.8</td>
<td>85</td>
<td>60</td>
<td>40</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>1.5</td>
</tr>
</tbody>
</table>

### Yanmar Portable Option - Solenoid Start/Stop & Emergency Stop, 3 Way Outlet, Full Frame

<table>
<thead>
<tr>
<th>Model</th>
<th>S/code</th>
<th>Engine Make</th>
<th>HP</th>
<th>Pump PSI</th>
<th>Max Flow (lpm)</th>
<th>Max Head (m)</th>
<th>Suction port</th>
<th>Discharge ports</th>
<th>Self primes to (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Chief Portable (QP205SE)</td>
<td>QP205S/1488/250/110 (electric start)</td>
<td>HONDA</td>
<td>4.8</td>
<td>85</td>
<td>60</td>
<td>40</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>1.5</td>
</tr>
<tr>
<td>Fuel Master Portable (QP209)</td>
<td>QP209/1488/250/110 (electric start)</td>
<td>HONDA</td>
<td>4.8</td>
<td>85</td>
<td>60</td>
<td>40</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Honda Petrol Drive - 3 Year Engine Warranty

Extend engine life with genuine Yanmar engine spares
PUMPS DIESEL

DRILL OPERATED PUMP BT-87 – PRODUCT CODE: PUMP-00100-CATB

Suitable for use with a wide range of liquids including:
- Diesel;
- Light oils;
- Coolant;
- Anti-freeze;
- Water;
- Herbicides;
- Suitable for use with a wide range of drills up to 2500rpm;
- Supplied in retail display box c/w EAN-13 Bar Code;
- 25mm hose tail connection suction and delivery.

Technical data
- Flow: according to the drill revolutions (maximum 60 lpm) *;
- Self-suction up to 2,5 m *;
- Delivery up to 25 m *;
- High resistance dry operation;
- Eccentric, self-suction pump with self-adjusting blades;
- Inner part: brass;
- Shaft and pin: Aisi 304 stainless steel;
- Pump body, blades and rotor: injected in plastic.

*According to the drill features

PUMPS

PETROL (GASOLINE) OR DIESEL

PETROL DRIVEN PUMP FOR DIESEL – PRODUCT CODE: PUMP-EDP150A-CATA

• Only suitable with diesel; biodiesel up to B30;
• Max. flow 125lpm. 1.6 litre unleaded petrol tank. 3.0 HP;
• Total head 23 metres. Suction lift 9 metres. Dry weight 17kgs;
• 4 stroke engine with recoil start. 1” hose tails and suction strainer;
• Dimensions 470mm H x 450mm W x 320mm D;
• Do not run dry;
• If used with nozzle/valve as means of control, a pressure relief valve must be used or warranty void.

Accessories:
- Pressure Relief Valve
  Code JUR1068025
- K44 Flow meter
  Code METER-0001660000-CATA
- NOZA.X25 Nozzle
  Code NOZZLE-NOZA.X25-CATA
- Donaldson Clean and Dry Filtration Kit
  Code SP-P006073-CATB

PIUSI ATEX EX50

PIUSI EX50 satisfies the strict ATEX / IECEx directive concerning the use of materials in potentially explosive atmospheres.
- Compact and sturdy construction;
- Cast-iron body;
- High-efficiency pump able to dispense up to 50 lpm (13 gpm) with little voltage draw, ensuring a longer life;
- Anti-noise filter (electromagnetic compatibility EMC);
- Fully-flanged components: pump, flow meter and filters can be fitted or replaced without the use of sealing paste, making the connections quick and safer;
- An integrated bypass valve; thermally protected.

Features:
- On/Off switch
- Flanged connection
- Compact and sturdy construction
- Atex II 2 G

Flow Rate

EX50 Kit
- Integrated Check valve and Pressure Relief valve;
- Nozzle holder switch;
- Drum 2” connector.

Code Description Flow rate Voltage Duty cycle on/off Packaging

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow rate lpm</th>
<th>Voltage AC/DC/Var</th>
<th>Duty cycle</th>
<th>Inlet</th>
<th>BSP</th>
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</thead>
<tbody>
<tr>
<td>F00371000</td>
<td>EX50 12V DC ATEX</td>
<td>12</td>
<td>12</td>
<td>21</td>
<td>30/60</td>
<td>700</td>
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<td>F00372020</td>
<td>Kit Drum EX50 12V DC ATEX</td>
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<td>12</td>
<td>27</td>
<td>30/60</td>
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<td>F00373020</td>
<td>EX50 230V AC ATEX</td>
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<td>230/50-60</td>
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<td>30/60</td>
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<td>F00374020</td>
<td>Kit Drum EX50 230V AC, ATEX</td>
<td>13</td>
<td>230/50-60</td>
<td>1</td>
<td>30/60</td>
<td>700</td>
</tr>
</tbody>
</table>

(*) Upon request it is available with different voltages and 60 Hz frequency.

The pump can be used only with the following fluids:
diesel - kerosene - petrol - petrol alcohol mixed max 15% - avgas 100/100LL (pump only) - jet A/A1 (pump only) - aspen 2/4

PIUSI EX50 satisfies the strict ATEX / IECEx directive concerning the use of materials in potentially explosive atmospheres.

Features:
- Integrated Check valve and Pressure Relief valve;
- Nozzle holder switch;
- Drum 2” connector.

Technical data
- Flow: according to the drill revolutions (maximum 60 lpm) *;
- Self-suction up to 2,5 m *;
- Delivery up to 25 m *;
- High resistance dry operation;
- Eccentric, self-suction pump with self-adjusting blades;
- Inner part: brass;
- Shaft and pin: Aisi 304 stainless steel;
- Pump body, blades and rotor: injected in plastic.

*According to the drill features
With the FILL-RITE® DC fuel transfer pumps, you can take:
• Reliability and pumping power wherever you need it;
• From portable use to tank and barrel mounting, DC pumps from FILL-RITE® make transferring fluids safe and trouble-free where AC power is not available;

Models Stocked:
• PUMP-FR1211CELA-CATB - 12V DC 57lpm supplied c/w pump, meter, 3.6m hose, auto shut off nozzle;
• PUMP-FR4211DEBL-CATB - 12V DC 76lpm supplied c/w pump, meter, 3.6m hose, auto shut off nozzle;
• PUMP-FR2411CELA-CATB - 24V DC 57lpm supplied c/w pump, meter, 3.6m hose, auto shut off nozzle.

Suitable for use with:
• Diesel;
• Petrol (gasoline);
• Kerosene;
• Solvents;
• Mineral spirits / heptane;
• Aviation fuels (requires some pump modification).

Choice of:
• 12V or 24V DC;
• 57lpm or 76lpm flow rate;
• Addition of a mechanical meter;
• ¾” or 1” id hose;
• Manual or automatic shut off nozzle.

Pump Features:
• Heavy duty cast iron body;
• Self priming positive displacement pump;
• UL approved explosion proof motor c/w 2 sealed bearings;
• Maximum amp draw from battery - 22 amps;
• Thermal overload protection - protects motor when overheated;
• Built in internal bypass valve and strainer;
• Pump can be padlocked;
• Supplied c/w integrated nozzle hoister;
• 30 minute duty cycle;
• 2” threaded tank adapter;
• Weather / rain proof;
• Two year warranty;
• Approved for pumping petrol and diesel.

FILL-RITE® AC fuel transfer pumps have been designed for stationary applications and can be mounted direct onto above ground storage tanks or used as a dispenser for under ground storage tanks.

Models Stocked:
• PUMP-FR701VELA-CATB - 240V AC 76lpm supplied c/w pump, meter, 3.6m hose, auto shut off nozzle;
• PUMP-FR702VELRU-CATB - cabinet pump 240V AC 76lpm supplied c/w pump, meter, 3.6m hose, auto shut off nozzle;
• PUMP-FR311VELA-CATB - 240V AC 114lpm supplied c/w pump, meter, 3.6m hose, auto shut off nozzle.

Suitable for use with:
• Diesel;
• Petrol (gasoline);
• Kerosene;
• Solvents;
• Mineral spirits;
• Heptane;
• Aviation fuels (requires some pump modification).

Choice of:
• Standard or cabinet configuration;
• 76lpm or 114lpm flow rate;
• Addition of an electronic or mechanical meter;
• ¾” or 1” id hose;
• Manual or automatic shut off nozzle.

Pump Features:
• Heavy duty cast iron body;
• Self priming positive displacement pump;
• UL approved explosion proof motor c/w 2 sealed bearings;
• Built in internal bypass valve and strainer;
• Pump can be padlocked;
• Supplied c/w integrated nozzle hoister;
• 30 minute duty cycle;
• 2” threaded tank adapter;
• Machined carbon vanes;
• Weather / rain proof;
• Two year warranty;
• Approved for pumping petrol and diesel.
PIUSI VISCOMAT – 110V / 230V AC

Gear Pumps - Viscomat Gear is a family of gear pumps designed to pump lubricants at elevated pressures over a reasonable distance.
- Flow rate from 9 to 14 lpm;
- Pressure from 12 to 25 bar;
- Continuous operation;
- Noise less than 70 dB.

Vane Pumps - Viscomat Vane is a family of vane pumps for transferring medium-viscosity oils, with high flow-rate:
- Flow rate from 25 to 50 lpm;
- Pressure up to 6 bar;
- Continuous operation;
- Noise less than 70 dB.

PIUSI VISCO-FLOWMAT

- Gear pumps with pressure switch;
- Self-priming pump featuring automatic switch-off;
- Flow rate from 9 to 14 lpm;
- Operating pressure from 12 to 25 bar;
- Automatic switch-on and switch-off;
- Uniform pulseless flow;
- Noise level below 65 dB;
- Self-priming pump.

PIUSI OIL AIR PUMP RANGE

Designed to be used in special application fields, the pumps are manufactured using selected materials suitable to ensure high performance and durability.

PIUSI 3.5:1 Pro-Silent air-operated oil pumps are especially suitable for transferring medium viscosity oil over short and medium distances.

PIUSI 5.5:1 Pro-Silent air-operated oil pumps are especially suitable for transferring medium viscosity oil over short, medium and long distances.

Featuring a sound proof protective structure, the pumps are equipped with a pneumatic exchanger and a three stage air discharging system which, combined with the absence of reciprocating mechanical parts subject to breaks, ensure low operating noise (just 77 DB) and long working life. The double effect grants enhanced efficiency and reduced air consumption.

Available in different lengths, all the pumps are supplied with a threaded bang + adaptor suitable to ensure stable mounting on oil drums or the wall bracket.
**MECLUBE OIL PUMP RANGE TO SUIT 180 - 220L DRUMS**

- Range of dual action, air operated piston pumps for dispensing of lubricants from 180 - 220L drums;
- Double acting piston with no cams therefore dramatically decreasing the number of wearing parts within the pump;
- Pump provides a large delivery of oil for very little air consumption;
- Aluminium alloy body pump with electrolytic treatment that ensures very high corrosion resistance;
- High stressed elements in Fe 420 steel;
- 6-8 bar working pressure;
- Air consumption 200lpm;
- Guide for pump application;
- Shank length 1250mm;
- 1/4" air inlet BSP female thread and 1/2" oil outlet BSP male thread;
- Guide for pump application;
- 5:1 - advised for the transfer of medium viscosity oil (SAE 15/240), and anti-freeze, for medium-long distances (150 - 240m);
- 8:1 - advised for the transfer of high viscosity oil (SAE 15/280), for medium-long distances (150 - 200m);

**MECLUBE OIL PUMP RANGE STUB**

- Complete dispensing kit for use with 180 - 220L drums;
- Kit includes: Meclube air operated double action heavy duty oil pump, non-metered shut off nozzle, drum adaptor, suction spear and 3m x 1/2" id hose;
- Weight per kit 11Kg.

**NOTE** - Drum not included as part of the kit. Image shows metered nozzle - this is an optional extra - standard kit is supplied with a NON-metered nozzle.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Shank Dia</th>
<th>Flow rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>020-1168-000-CATA</td>
<td>1:1 Air Operated Pump</td>
<td>40 lpm</td>
<td>50mm</td>
</tr>
<tr>
<td>020-1188-000-CATA</td>
<td>3:1 Air Operated Pump</td>
<td>28 lpm</td>
<td>42mm</td>
</tr>
<tr>
<td>020-1207-000-CATA</td>
<td>5:1 Air Operated Pump</td>
<td>20 lpm</td>
<td>30mm</td>
</tr>
<tr>
<td>020-1168-000-CATA</td>
<td>8:1 Air Operated Pump</td>
<td>25 lpm</td>
<td>42mm</td>
</tr>
</tbody>
</table>

**MECLUBE HIGH CAPACITY OIL PUMP RANGE TO SUIT 1000L IBC’S**

- Range of high capacity dual action, air operated piston pumps for dispensing of lubricants from 1000L IBC’s;
- Shank length 1250mm;
- Double acting piston with no cams therefore dramatically decreasing the number of wearing parts within the pump;
- Pump provides a large delivery of oil for very little air consumption;
- Aluminium alloy body pump with electrolytic treatment that ensures very high corrosion resistance;
- High stressed elements in Fe 420 steel;
- 6-8 bar working pressure;
- Air consumption 340lpm;
- Noise 80dB;
- 3/8" air inlet BSP female thread and 3/4" oil outlet BSP male thread;
- Shank diameter 50mm;
- Guide for pump application;
- Shank length 1250mm;
- 5:1 - advised for the transfer of medium viscosity oil (SAE 15/130), and anti-freeze, for short-medium distances (5 - 10m);
- 3:1 - advised for the transfer of low - medium viscosity oil (SAE 15/130), and anti-freeze, for short-medium distances (40 - 50m);

**MECLUBE OIL PUMP KIT TO SUIT 180 - 220L DRUMS**

- Complete dispensing kit for use with 180 - 220L drums;
- Kit includes: Meclube heavy duty double action air operated pump, IBC adaptor, IBC mounting bracket and nozzle holder / drip tray;
- Weight per kit 48.45Kg.
- NOTE - IBC / Tank not included as part of the kit.
- Complete oil pump kit to suit 1000L IBC’s;
- Kit includes: Meclube heavy duty double action air operated pump, IBC adaptor, Meclube spring rewind hose reel cw 10m x 1/2" id hose, electronic metered oil nozzle, air filter regulator and lubricator, 2m x 1/4" air hose, pump to hose reel delivery hose, IBC mounting bracket and nozzle holder / drip tray;
- Weight per kit 48.45Kg.

**MECLUBE OIL PUMP KIT TO SUIT 1000L IBC**

<table>
<thead>
<tr>
<th>Code</th>
<th>Flow rate</th>
<th>Shank Dia</th>
</tr>
</thead>
<tbody>
<tr>
<td>020-1198-000-CATA</td>
<td>25 lpm</td>
<td>42mm</td>
</tr>
<tr>
<td>020-1208-000-CATA</td>
<td>20 lpm</td>
<td>42mm</td>
</tr>
</tbody>
</table>

**MECLUBE OIL PUMP RANGE TO SUIT 1000L IBC**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Shank Dia</th>
<th>Flow rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>020-1186-000-CATA</td>
<td>1:1 Air Operated Pump</td>
<td>40 lpm</td>
<td>50mm</td>
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<tr>
<td>020-1195-000-CATA</td>
<td>3:1 Air Operated Pump</td>
<td>28 lpm</td>
<td>42mm</td>
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</table>

**NOTE** - IBC / Tank not included as part of the kit.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Shank Dia</th>
<th>Flow rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>020-1198-000-CATA</td>
<td>5:1 Air Operated Pump</td>
<td>25 lpm</td>
<td>42mm</td>
</tr>
<tr>
<td>020-1208-000-CATA</td>
<td>5:1 Air Operated Pump</td>
<td>20 lpm</td>
<td>42mm</td>
</tr>
</tbody>
</table>
**PIUSI VISCOMAT DC**

- 12V and 24V DC range of oil pumps
- A new and complete range of pumps for transferring and delivering oil, operated by direct current motors
- This range of pumps is designed for transferring oil from drums in situations and locations where electricity or pneumatic pump power are not available.

### Performance
- Flow rate from 4 to 10 l/min
- Operating pressure 5 bar
- Oil viscosity up to 2000 cSt

### Specifications

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>F0030900A</td>
<td>Viscomat DC 120/1 12V</td>
<td>5</td>
<td>1,4</td>
<td>10</td>
<td>140</td>
<td>1/2&quot;</td>
<td>9</td>
<td>235 x 125 x 150</td>
</tr>
<tr>
<td>F0030901A</td>
<td>Viscomat DC 60/2 12V (*)</td>
<td>10</td>
<td>2,8</td>
<td>4</td>
<td>57</td>
<td>3/4&quot;</td>
<td>9</td>
<td>355 x 195 x 270</td>
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<tr>
<td>F0030902A</td>
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<td>4</td>
<td>1,2</td>
<td>5</td>
<td>70</td>
<td>1/2&quot;</td>
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<td>1,4</td>
<td>10</td>
<td>140</td>
<td>1/2&quot;</td>
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<td>355 x 195 x 270</td>
</tr>
<tr>
<td>F0031001A</td>
<td>Viscomat DC 60/2 24V (*)</td>
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<td>2,8</td>
<td>4</td>
<td>57</td>
<td>3/4&quot;</td>
<td>24</td>
<td>355 x 195 x 270</td>
</tr>
<tr>
<td>F0031002A</td>
<td>Viscomat DC 60/1 24V</td>
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<td>1,2</td>
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<td>1/2&quot;</td>
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<td>255 x 125 x 150</td>
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<td>F0031100A</td>
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<td>1,4</td>
<td>10</td>
<td>140</td>
<td>1/2&quot;</td>
<td>12</td>
<td>355 x 195 x 270</td>
</tr>
<tr>
<td>F0031101A</td>
<td>Viscomat DC 120/1 24V PST</td>
<td>5</td>
<td>1,4</td>
<td>10</td>
<td>140</td>
<td>1/2&quot;</td>
<td>12</td>
<td>355 x 195 x 270</td>
</tr>
</tbody>
</table>

**PIUSI BATTERY KIT OIL**

- Portable oil transfer unit featuring 12 or 24 V DC powered pumps
- Flow rate up to 10lpm
- Rotary-self-priming pump, fuse to protect against overloads
- 2-metre long power cable
- Antistatic oil hose, 4 metres long
- 1” BSP suction tube with check valve and filter
- Supplied with self-priming pump, to ensure constant silent operation
- Can be connected to drums via a quick connect 2” coupling
- Mobile transfer unit
- Easily connected to drums for quick and easy operation
- Fitted with a mechanical meter to ensure precise dispensing and control of single user consumption

### Accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Flow Rate [l/min]</th>
<th>Pressure [bar]</th>
<th>LO [psi]</th>
<th>DC [V]</th>
<th>Weight [Kg]</th>
<th>Packaging [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>R10041000</td>
<td>Kit cable 4 m (12V)</td>
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<tr>
<td>R10039000</td>
<td>Kit cable 4 m (24V)</td>
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<tr>
<td>R14438000</td>
<td>Kit cable 4 m (12V/24V)</td>
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<tr>
<td>R10040000</td>
<td>Kit cable 2 m (24V)</td>
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<tr>
<td>R10011000</td>
<td>Kit cable 2 m (12V)</td>
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<tr>
<td>R14437000</td>
<td>Kit cable 2 m (12V/24V)</td>
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</table>

**PIUSI DRUM VISCOMAT AC + DC**

- Oil transfer kit for commercial use
- Available in 12V DC / 24V DC and 240V AC options
- Easily connected to drums via a quick connect 2” coupling
- Supplied with a telescopic suction tube for direct connection to oil drums
- Nozzle housing located above the drum, near the pump, for easy, clean operation
- Fitted with a mechanical meter to ensure precise dispensing and control of single user consumption

### Specifications

<table>
<thead>
<tr>
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<td>F00431020</td>
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<td>2</td>
<td>230</td>
<td>4</td>
<td>K400</td>
<td>18 x 30 x 260</td>
</tr>
</tbody>
</table>

**PIUSI VISCOTROLL AC**

- Mobile transfer unit
- Can be connected to any power socket without requiring compressed air
- Supplied with self-priming pump, to ensure constant silent delivery and regular no-pulse flow
- 1” BSP suction tube with check valve and filter
- 4 metre long, 3/4” BSP delivery hose
- Viscolotroll 70 kits are designed for the bulk transfer of oil
- Viscolotroll 200 kits are designed for dispensing of oil into equipment
- Optional extras: meters, pressure switch with inbuilt safety valve

### Specifications

<table>
<thead>
<tr>
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<td>F0026301D</td>
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<td>230</td>
<td>4</td>
<td>K400</td>
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<td>F0026302D</td>
<td>Viscotroll 200/2 AC - PST</td>
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<td>2</td>
<td>230</td>
<td>4</td>
<td>K400</td>
<td>18 x 30 x 260</td>
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<tr>
<td>F0026303D</td>
<td>Viscotroll 200/2 AC - PST - K400</td>
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<td>2</td>
<td>230</td>
<td>4</td>
<td>K400</td>
<td>18 x 30 x 260</td>
</tr>
</tbody>
</table>
GRACO LD SERIES AIR OPERATED PISTON PUMPS

- Range of 3:1 and 5:1 air operated piston pumps;
- Built-in thermal relief protects your equipment from thermal expansion;
- Three-inch air motor provides more power to create better flow;
- Cup and plate design eliminates the need for O-rings that wear out faster;
- Adjustable bung adaptor included;
- Air inlet and exhaust locations are easy to configure / customise for your site requirements;
- Supplied with Graco NXT air valve designed for long life and easy replacement over time;
- Pump free flow rate: 3.1 – 360 ml / 0.5 – 24.6 pgm.

3:1 LD Oil Pump

- Maximum fluid working pressure: 490 psi (3.4 bar, 3.4 MPa)
- Fluid pressure ratio: 4:1
- Suction lift (net of oil): 70 ft
- Air operation range: 20 to 150 psi (1.4 to 10.3 bar)
- Recommennded air pressure (for max. lift): 125 psi (8.6 bar, 0.86 MPa)
- Max recommended pump speed: 120 cycles per minute
- Cycles per gallon/pound (g/lb): 28 cycles per gallon (7 cycles per lb)
- Recommended pump speed (for max. lift): 75 cycles per minute or lower
- Worked parts: 316 stainless steel, aluminum alloy, polyurethane, nickel plated aluminum
- Sound Pressure Level: 72 dBA
- Sound Power Level: 82 dBA
- Approximate weight: 4 pounds (3.2 kg)
- Fluid inlet: 1/4”
- Fluid outlet: 1/2”
- Free flow*: 3.1 gpm

5:1 LD Oil Pump

- Maximum fluid working pressure: 120 psi (0.8 bar, 0.8 MPa)
- Fluid pressure ratio: 5:1
- Suction lift (net of oil): 70 ft
- Air operation range: 20 to 150 psi (1.4 to 10.3 bar)
- Recommennded air pressure (for max. lift): 125 psi (8.6 bar, 0.86 MPa)
- Max recommended pump speed: 120 cycles per minute
- Cycles per gallon/pound (g/lb): 28 cycles per gallon (7 cycles per lb)
- Recommended pump speed (for max. lift): 75 cycles per minute or lower
- Worked parts: 316 stainless steel, aluminum alloy, polyurethane, nickel plated aluminum
- Sound Pressure Level: 72 dBA
- Sound Power Level: 82 dBA
- Approximate weight: 4 pounds (3.2 kg)
- Fluid inlet: 1/4”
- Fluid outlet: 1/2”
- Free flow*: 3.1 gpm

*Flowrate at 170 psi gauge inlet pressure, using SAE 20 oil at 70°F
FE PETRO SUBMERSIBLE PUMPS

Features

- **Faster Fueling Times** - With innovations like MagShell™, FE Petro products set the standard for submersible pump performance.
- **Active Air Eliminator** - FE Petro products come standard with active air elimination, which eliminates air through the highest point in the pump head at all times when the pump is running, assuring air does not pass into discharge piping.
- **Safety and Ease of Maintenance** - FE Petro STPs include a contractor electrical disconnect, which requires loosening only one bolt, allowing motor wiring to be disconnected without venting the dangerous tank vapors into the sump when servicing FE Petro submersible products.
- **Simple Servicing** - If ever required, the pump can be easily removed from the tank by unthreading three bolts. There is no need to disconnect the sump system or to remove the leak detector from the system to service the STP.
- **Manual Pressure Relief** - A standard FE Petro feature. A vent screw is provided to bleed line pressure to zero when necessary. By turning this screw, product is diverted back to the tank, dropping line pressure to zero. This reduces fuel discharged into the sump manifold or dispenser pan during servicing, further protecting service technicians and the environment.
- **Reliable Check Valve** - The STP uses FE PETRO's proven line check valve. At 23/4" in diameter, this valve reduces pressure loss at high flow rates resulting in faster fueling times.
- **Variable Length** - The VL2 pump fits 94% of all known tank diameters and tank bury depth combinations. The VL1 and VL3 are available to handle installations shorter or longer than this range. The telescoping connection is a patented FE Petro feature. Pump length can be set by making one simple measurement and setting the pump length without affecting the UL listing of the pump.

**Liquid Compatibility**

- Max. liquid viscosity: 70 SSU at 60°F (15°C).
- Variable speed models are UL and cUL listed for fuel mixtures containing up to 10% ethanol, 20% MTBE, 20% ETBE or 17% TAME with gasoline.
- Variable speed (non-AG) models can also be used with diesel fuels, fuel oils, kerosene, Avgas and jet fuels in a non-gelled pourable state.
- All wetted elastomers are made of a high-grade, fluorocarbon compound.

**Standard Features**

- Available in variable length and fixed length options;
- Check valve: 2 3/4 diameter fluorocarbon viton seal constructed on cast aluminum body and steel backing washer;
- Pressure relief valve: available in four pressure relief settings, integral to check valve. Standard model relieves at 40 psi and resets above 35 psi;
- Syphon: venturi type syphon primer supplied with every submersible. Syphon check valve and secondary syphon sold separately;
- Air eliminator: every submersible includes tank return path, with one-way check valve, to provide active air elimination;
- Electrical disconnect: electrical yoke for positive contractor disconnect during service.

**Range of performance**

- Flows to 6,100 lpm;
- Pressures to 1,100 psi;
- Viscosities to 10,000 CS;
- Temperatures to 100°C.

---

EBRAY Y SERIES POSITIVE DISPLACEMENT PUMPS

Highly efficient self priming positive displacement sliding vane pumps for low to medium viscosity lubricating and non-lubricating liquids. Designed and precision built to optimise all the advantages of the sliding vane principle. Automatic compensation for vane wear assures the pump will maintain its superior priming characteristics and line stripping ability over a long service life. Smooth output flow ensures quiet operation within the NPSH range. The pumps can be directly-coupled to synchronous speed motors.

**Fields of Application**

Road tanker mounting and fixed installation for loading and unloading of Petroleum products such as: petrol, distillate, aviation fuels, lubricating oils, LPG, chemicals solvents and edible oils.

**Features**

- Replaceable wearing components;
- Balanced mechanical seals, shaft lip seals;
- Positive axial location of rotor;
- Multipointing configurations;
- Double-ended shaft (some models);
- Bypass valve - integral adjustable;
- Lightweight or standard;
- Compact and robust.

**Materials of Construction**

- Casing - Cast Iron, Ductile Iron, Aluminum, Steel;
- Rotors - Cast Iron, ADI - model dependent;
- Vanes - Engineered plastic;
- Liner - Cast Iron, ADI - model dependent;
- Shaft - High Tensile Alloy Steel or Stainless Steel;
- Special materials to specification.

**Range of performance**

<table>
<thead>
<tr>
<th>Description</th>
<th>Service</th>
<th>Casing Material</th>
<th>Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model V30 T24 with Kohler KD425-2 engine</td>
<td>Refueling and Unloading</td>
<td>Cast Iron / Aluminum</td>
<td>920 lpm</td>
</tr>
<tr>
<td>Model V25 T83 with Kohler 15LD500 engine</td>
<td>Refueling</td>
<td>Cast Iron / Aluminum</td>
<td>560 lpm</td>
</tr>
<tr>
<td>Model V20 T21H with Kohler KD350 engine</td>
<td>Refueling</td>
<td>Aluminum</td>
<td>400 lpm</td>
</tr>
<tr>
<td>Model V35 T24 with Kohler KD440 engine</td>
<td>Refueling</td>
<td>Aluminum</td>
<td>400 lpm</td>
</tr>
<tr>
<td>Model V35 T24 with Kohler KD150D engine</td>
<td>Refueling and Unloading</td>
<td>Cast Iron / Aluminum</td>
<td>450 lpm</td>
</tr>
<tr>
<td>Model V25 T83 with 5.5kw 6 pole motor</td>
<td>Refueling</td>
<td>Aluminum</td>
<td>300 lpm</td>
</tr>
<tr>
<td>Model V35 T24 with 7.5kw 8 pole motor</td>
<td>Refueling and Unloading</td>
<td>Cast Iron / Aluminum</td>
<td>520 lpm</td>
</tr>
<tr>
<td>Model V35 T24 with 4.0kw 4 pole motor</td>
<td>Refueling</td>
<td>Cast Iron / Aluminum</td>
<td>300 lpm</td>
</tr>
<tr>
<td>Model V20 T21H with 4.0kw 6 pole motor</td>
<td>Refueling</td>
<td>Cast Iron / Aluminum</td>
<td>400 lpm</td>
</tr>
<tr>
<td>Model V30 T24 with 7.5kw 8 pole motor</td>
<td>Refueling and Unloading</td>
<td>Cast Iron / Aluminum</td>
<td>350 lpm</td>
</tr>
<tr>
<td>Model V35 T24 with 11kw 8 pole motor</td>
<td>Refueling and Unloading</td>
<td>Cast Iron / Aluminum</td>
<td>350 lpm</td>
</tr>
<tr>
<td>Model V35 T24 with 15kw 8 pole motor</td>
<td>Refueling</td>
<td>Cast Iron / Aluminum</td>
<td>350 lpm</td>
</tr>
<tr>
<td>Model V40 with Kohler KD425-2 engine</td>
<td>Refueling and Unloading</td>
<td>A395 Ductile Iron</td>
<td>1100 lpm</td>
</tr>
<tr>
<td>Model V40 with Kohler KD205-2 engine</td>
<td>Refueling and Unloading</td>
<td>A395 Ductile Iron</td>
<td>1100 lpm</td>
</tr>
<tr>
<td>Model V40 with Kohler KD150D engine</td>
<td>Refueling and Unloading</td>
<td>A395 Ductile Iron</td>
<td>1100 lpm</td>
</tr>
</tbody>
</table>

**Electric Driven Pumps**

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<th>Flow Rate</th>
<th>Max. Diff Pressure</th>
</tr>
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<tbody>
<tr>
<td>Model V30 T24 with 7.5kw 8 pole motor</td>
<td>Refueling and Unloading</td>
<td>Cast Iron / Aluminum</td>
<td>350 lpm</td>
<td>100 psi</td>
</tr>
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</tr>
<tr>
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</tr>
<tr>
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<td>A395 Ductile Iron</td>
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</tr>
<tr>
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<td>100 psi</td>
</tr>
</tbody>
</table>
**SPILL CONTAINMENT UNIT**

- Portable, Heavy Duty, Galvanised Spill Containment Unit;
- Designed to capture spills at fill point;
- Perfect for projects / construction work - fully portable;
- Removable heavy duty galvanised grating;
- Multiple bung drain points for connection to site plumbing or separator systems;
- Modular design, able to be linked to form larger spill pads;
- Optional Ramps are available for on ground applications;
- Available for Hire, Rent to Buy or Purchase.

**SPILL CONTAINMENT UNIT RAMP**

- Heavy Duty 150T Load Rated - engineer approved
- 3000mm L x 2000mm W x 250mm H Standard Design
- We can customise any dimension to suit your project site
- Middle Mesh Layer to hold Absorbent Spill Matting if used
- Multiple DN80 (3”) Drainage Bungs
- Forklift Pockets
- Removable Galvanised Grating
- Able to inter connect for larger spill pad requirements
- 250T rated model available if required

**OIL WATER SEPARATOR**

**TS1000SS**

The PETRO SCU can be combined with a full Oily Water Separator module for longer term project requirements.

---

**STRAINERS**

**PETRO 316 STAINLESS STEEL Y STRAINER RANGE** - PRODUCT CODE: SYS-CATA

- Size range: 8 - 80mm;
- Scr BSP 800 psi WOG;
- Course Pre-Equipment Strainer;
- Material: ASTM A351 - CF8M;
- Investment casting body & cap;
- PTFE gasket;
- Y type strainer;
- BSP pipe thread in accordance with BS 21:1973;
- 800 PSI (55 BAR) W.O.G.;
- Drain plug.

**PETRO CAST STEEL Y STRAINER RANGE FLANGED ANSI 150** – PRODUCT CODE: CYS-CATA

- Size Range: 50-300mm;
- Material: ASTM A216 - WCB;
- Y type strainer;
- Flange: ANSI B16.5 Class 150;
- SS 304 screens, 1.6 mm perf;
- Course Pre-Equipment Strainer 1.6 perf mesh;
- Drain plug.

---

**VIKING PRE PUMP BAG FILTER**

Viking range of Bag Filters to be used pre-pump to remove particulates from the liquid prior to entering the pump. The Viking range of Bag Filters are particularly useful in applications with large quantities of particulates in the liquids supply chain that need to be removed prior to entering your bulk storage.

- Removes common contaminants such as dirt, dust and rust;
- Increased filtering capacity;
- Mesh bag options can be reused;
- Low cost replacements;
- Full ASME certification available.

---

**SO WHY INCLUDE A STRAINER?**

PETRO stocks and markets a wide range of Pre-Pump Strainers all of which are designed to protect vital dispensing equipment such as your Pump and Meter, from damage that can be caused by the ingress of foreign materials from the tank. Colloquially known as a 'rock catcher', a Strainer is a must in any dispensing system.

**PETRO STOCKS**

- Size range: 8 - 80mm;
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- Drain plug.

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In line strainer for 76mm and 102mm diameter flows. The PETRO ILS400 is a lightweight inexpensive aluminium suction line strainer for larger pumps such as those fitted to large vehicles and prime movers for bulk industrial deliveries.

- Protects downstream equipment such as meters and pumps from debris and foreign objects;
- Strainer basket can only be fitted for correct direction of flow;
- Drain bosses provided in body and lid to suit any mounting angle;
- Simply remove lid by unscrewing 2 off lid retaining nuts and remove basket;
- Adjustment - None;
- Maximum vacuum to 90kPa;
- Maximum working pressure to 700kPa;
- All metal construction. Cast aluminium body & lid;
- Steel mesh with aluminium surround;
- Nitrile seal;
- Available to aviation standard on special order;
- Mount with arrow in correct flow direction;
- Made from cast aluminium – light (4.7kg) and has low pressure drop characteristics;
- 100mm (4”) TTMA flanged for easy installation;
- Access for cleaning is simple through the quick-release lid;
- Available with a variety of filter mesh sizes.

Models include:
ILS400 – c/w plain zinc plated strainer (bolt stopper) basket only
ILS400-200P – c/w 200 mesh stainless steel strainer basket
ILS400-80P – c/w 80 mesh stainless steel strainer basket
ILS400-40S – c/w 40 mesh stainless steel strainer basket

<table>
<thead>
<tr>
<th>Code</th>
<th>Housing Material</th>
<th>Strainer Finish</th>
<th>Mesh Size</th>
<th>Actual Microns</th>
<th>Wire Dia mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILS400-1</td>
<td>Aluminium</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>ILS400-2</td>
<td>Aluminium</td>
<td>Stainless Steel</td>
<td>200</td>
<td>75±5</td>
<td>0.012</td>
</tr>
<tr>
<td>ILS400-3</td>
<td>Aluminium</td>
<td>Stainless Steel</td>
<td>350</td>
<td>40±5</td>
<td>0.025</td>
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<tr>
<td>ILS400-4</td>
<td>Aluminium</td>
<td>Stainless Steel</td>
<td>80</td>
<td>190±5</td>
<td>0.012</td>
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<tr>
<td>ILS400-5</td>
<td>Aluminium</td>
<td>Stainless Steel</td>
<td>250 x 50</td>
<td>40±5</td>
<td>0.012</td>
</tr>
<tr>
<td>ILS400-6</td>
<td>Aluminium</td>
<td>Stainless Steel</td>
<td>40</td>
<td>413±5</td>
<td>0.020</td>
</tr>
</tbody>
</table>

Waste Oil Equipment

- Basin abs 3 sections tool holder;
- Pneumatic air emptying (max pressure 0.5 bar);
- For the recovery of exhausted oil in the engine, the transmission and the differential of motor-vehicles from hoists;
- The basin is equipped with a grate dip for filter drainage;
- Filter drain height can be adjusted.

- PRODUCT CODE: 045-1462-000-CATA:
  - Tank capacity 65L with level indicator;
  - Recovery basin capacity 15L with breakwater grate for drip the substituted oil filters;
  - Weight 26.7kg;
  - 650mm L x 500mm W x 1700mm H.

- PRODUCT CODE: 045-1465-000-CATA:
  - Tank capacity 120L with level indicator;
  - Recovery basin capacity 20L with ergonomic and swivel 360° abs funnel and breakwater grate for filter drain;
  - Weight 29.5kg;
  - 780mm L x 500mm W x 1900mm H.

MECLUBE Waste Oil Extractor with Pantograph - 041-1456-000-CATA

- Air-operated waste oil extractor / drainer with pantograph 120L for trucks;
- Tank capacity 120L with level indicator;
- Basin abs 3 sections tool holder;
- Recovery basin capacity 50L on arms pantograph with breakwater grate for oil filter drainage;
- Pneumatic air emptying (max pressure 0.5 bar);
- Equipped with 10 standard probes (Art.044-1479-000);
- Weight 52kg;
- 660mm L x 600mm W x 1550mm H;
- Air pressure for depressurisation - 7.5 to 8 bar;
- Depressurisation time - 3 to 3.5 lpm;
- Max suction capacity with a depressurisation - 85 to 90L;
- Suction time with Ø 6 and oil at 60 – 80 °C temperature - 1.5 to 2 lpm;
- Suction hose-empting – hose length - 2m.
MECLUBE WASTE OIL EXTRACTOR

- Air-operated waste oil extractor;
- Pneumatic air emptying of tank (max pressure 0.5 bar);
- Equipped with 10 standard probes (PRODUCT CODE: 044-1479-000);
- Basin abs 3 sections tool holder;
- Air-operated waste oil extractors are ideal for a rapid changing of motor oil from vehicles;
- Units provide suction up to 2/3rds of their stated capacity;
- We recommend to extract waste oil at a temperature of 60° - 80°C (when the engine has just been switched off);
- Warning: do not use these units for the suction of brake oils, fuels and flammable liquids;
- PRODUCT CODE: 040-1420-000-CATA:
  - Tank capacity 24L with level indicator;
  - 330mm L x 280mm W x 980mm H - weight 13.52kg;
- PRODUCT CODE: 040-1428-000-CATA:
  - Tank capacity 120L with level indicator;
  - 620mm L x 520mm W x 910mm H - weight 26.7kg.

MECLUBE AIR OPERATED OIL EXTRACTOR C/W GRAVITY DRAINER

- Air operated oil extractor c/w gravity drainer and inspection chamber;
- Basin abs 3 sections tool holder;
- Pre-chamber capacity 10L;
- Pneumatic air emptying (max pressure 0.5 bar);
- Equipped with 10 standard probes (PRODUCT CODE: 044-1479-000);
- For the recovery of exhausted oil in the engine, the transmission and the differential of motor-vehicles from hoists;
- The basin is equipped with a grate drip for filter drainage;
- Filter drain height can be adjusted;
- Air pressure for depressurisation - 7.5 to 8 bar;
- Depressurisation time - 3 to 3.5 lpm;
- Suction time with Ø 6 and oil at 60 – 80 °C temperature - 1.5 to 2 lpm;
- Suction hose-empting – hose length - 2m;
- PRODUCT CODE: 045-1462-000-CATA:
  - Tank capacity 65L with level indicator;
  - Recovery basin capacity 15L with breakwater grate oil filter drainage;
  - Max suction capacity with a depressurisation - 43 to 45L;
  - 790mm L x 790mm W x 1600mm H - weight 34.3kg;
- PRODUCT CODE: 045-1465-000-CATA:
  - Tank capacity 120L;
  - Recovery basin capacity 20L with 360° swivel pan and breakwater grate oil filter drainage;
  - Max suction capacity with a depressurisation - 85 to 90L;
  - 840mm L x 530mm W x 1800mm H - weight 38.3kg.

MECLUBE WASTE OIL DRAINER PIT

- Exhausted oil drain unit;
- Equipped with:
  - Breakwater grate on the base of the tank;
  - Filter oil drain grate for used filters to drain;
  - Adjustable wheeled supports (min 800 – max 1200 mm);
  - F 3/4” G exhaust ball valve;
- Tank capacity 90L:
  - PRODUCT CODE: 046-1457-000-CATA;
- Tank capacity 120L:
  - PRODUCT CODE: 046-1457-G00-CATA.

MECLUBE WASTE OIL DRAINER TROLLEY - PRODUCT CODE: 047-1459-G00-CATA

- Wheeled waste oil drain trolley 120L;
- Tank capacity 120L;
- Equipped with:
  - Breakwater grate on the base of the tank;
  - Grated filter drain;
  - 2 swivelling wheels Ø 80 mm;
  - 2 fixed wheels Ø 100 mm;
  - F 3/4” G exhaust ball valve.

GRACO OIL ACE PRESSURISED FLUID RECLAIM PACKAGE – PRODUCT CODE: GRACO-OILACE

- Easy to drain using shop air pressure;
- Large 24 gallon capacity;
- Large offset collection pan with screen.

Typical Applications
- Pressurised used oil receiver;
- Service shops;
- Automotive dealerships;
- Fast lube centres;
- Heavy-duty dealerships;
- Fleet service facilities.

Specifications
- Maximum working pressure: 8 psi;
- Length: 24 in;
- Width: 16 in;
- Height with drain bowl at lowest adjustment: 56.5 in;
- Height with drain bowl at highest adjustment: 80 in;
- Funnel diameter: 24 in;
- Dry weight: 74 lb;
- Wetted parts: steel, copper, PVC plastic, rubber, aluminum;
- Recommended operating temperature: 30°-105°F.
GRACO OIL KING/COOLANT KING FLUID RECLAIM

- Large 25-gallon capacity with sight gauge;
- Convenient tool trays and filter areas;
- Large offset collection pan with screen;
- Oversized tires to get over hose and rough floors;
- Colour specific receiver for easy identification.

Typical Applications
- Used fluid receiver;
- Automotive dealerships;
- Heavy-duty dealerships;

Specifications
- Length: 24 in;
- Width: 24 in;
- Height with bowl at lowest adjustment: 45 in;
- Height with bowl at highest adjustment: 69 in;
- Dry Weight: 54 lb;
- Fluid inlet/inspection port size: 3 in buttress;
- Fluid outlet fitting size: 3/4 in npt;
- Wetted parts: linear low-density polyethylene (LLDPE), zinc-plated steel, brass, nylon, polypropylene, PVC, Buna-N, polyurethane;
- Recommended operating temperature: 30°F to 105°F.

PIUSI VACUBOX OIL EXTRACTOR – PRODUCT CODE: F00500B00-CATA

The Piusi Vacubox Oil Extractor is a powerful, wall mounted oil extraction unit, designed for small to medium workshops where clean, spill-free oil removal from vehicles is required. With these Piusi oil extractors, there is no need to lift the vehicle or to remove the sump plug, as the Vacubox’s probes insert into the dipstick port, allowing the oil to be sucked from the engine sump. The unit automatically stops once the oil extraction is complete.

- Integrated suction gauge to monitor the pump;
- Alarm alert of any blockage occurring;
- Maximum flow rate of 10lpm.

MECLUBE WASTE OIL FUNNEL

- 15L oil recovery basin - PRODUCT CODE: 049-1477-000-CATA;
  - Composed of:
    - Metal grate 15L with oil filter drain;
    - Ø 30L 750 mm riser with 3/4" G valve;
    - 2" G threaded ring for drum connection;
    - ABS.

- 20L oil recovery basin - PRODUCT CODE: 049-1478-000-CATA;
  - Composed of:
    - Metal basin 20L;
    - Ergonomic and swivel 360° abs funnel;
    - Metal grated filter drain;
    - Ø 42 L 750 mm riser with 1” G valve;
    - 2" G threaded ring for drum connection.

NOTE: drum in images not included.

POLY DRUM FUNNEL SUIT 205L DRUMS - PRODUCT CODE: TSSDF1-Z

- Decanting from one container into 205L drums can be a difficult and messy operation;
- The oly Drum Funnel is made from 100% polyethylene and sits securely on the top of open or closed top drums;
- The 56cm diameter provides a large surface area to accept liquids, leaving the operator to concentrate on the pouring process;
- It is perfect for draining oil filters into 205L drums;
- OPTIONAL LID - The lid ensures that the drum will not fill with water if left in the weather.

SAFE-D-CANT - MOBILE WASTE MANAGER – PRODUCT CODE: PSRDH010

- An innovative solution to moving and decanting awkward and heavy containers;
- Contains leaks;
- Minimises back strain;
- Lockable wheels;
- Tuff and durable polyethylene and steel construction;
- Rachet straps for safe and effective securing of drums;
- Dimensions: H 1080mm, W 760mm, L 880mm.
PETRO MOBILE FUEL RETRIEVER BI DIRECTION – PRODUCT CODE: FR.1-CATA

- Suitable for use with petrol, diesel or oils up to SAE 90;
- Must not be used to store fuel;
- For safe and easy emptying/filling of fuel from vehicles;
- 90L tank capacity. Equipped with level gauge;
- Max. flow 10 - 15 litres @ 80rpm. Antistatic earth leads/clamp;
- Dimensions 1260mm H x 520mm W x 570mm D;
- Delivery/discharge hose 3m. Suction lift 1m, discharge head 3m;
- Bi-direction for filling (sucking) and emptying (discharge).

PETRO BRASS LIFT / TRANSFER PUMP – PRODUCT CODE: HPLP-CATA

- Lift/transfer pump manufactured from brass;
- Removable Neoprene caps;
- Dispenses approximately 100ml per stroke;
- Self priming. Smooth operation. No threaded parts;
- Supplied with 600mm 1⁄2" delivery hose and 1m 1⁄4" suction hose;
- Use on cars, boats, motorcycles, ATVs, garden equipment etc;
- Ideal to drain oil from crank case, cleans sludge from oil filter case, removes water from radiators to add antifreeze, pumps water, transfer fluids from one container to another.

PETRO TWO IN ONE VACUUM PUMP – PRODUCT CODE: HSUC68-CATA

- Novel device that both sucks and stores extracted liquids;
- Suitable for diesel, gasoil, water, oils and many other liquids. Wetted materials: Polypropylene, nylon, aluminium, nitrile;
- Removes:
  - Oil from vehicles, lawn mowers, motorbikes, hydraulic reservoirs without draining, simply insert the suction pipes in the dipstick hole;
  - Water from bunded fuel tank cabinets, fish tanks, bilges and otherwise inaccessible areas;
  - Fuel spillages from bunded tanks/fill point cabinets;
- Can suck fluid up direct from the ground;
- Prime the handle and watch it work;
- Supplied with suction probes to fit most applications;
- Lightweight and portable (17 litre version has castors);
- When full, remove top plug to pour out the contents;
- Available in 2.7L, 6L and 17L capacities.

PETRO LIQUID EXTRACTION VACUUM PUMP RANGE – PRODUCT CODE: HP.SUC-CATA

- Novel device that both sucks and stores extracted liquids;
- Suitable for diesel, gasoil, water, oils and many other liquids. Wetted materials are polypropylene, nylon, aluminium and nitrile;
- Removes:
  - Oil from vehicles, lawn mowers, motorbikes, hydraulic reservoirs without draining, simply insert the suction pipes in the dipstick hole;
  - Water from bunded fuel tank cabinets, fish tanks, bilges and otherwise inaccessible areas;
  - Fuel spillages from bunded tanks / fill point cabinets;
- Can suck fluid up direct from the ground;
- Prime the handle and watch it work;
- Supplied with suction probes to fit most applications;
- Lightweight and portable (17 litre version has castors);
- When full, remove top plug to pour out the contents;
- Available in 2.7L, 6L and 17L capacities.

PETRO BRAKE FLUID CHANGER KIT – PRODUCT CODE: BB.KIT-CATA

- Complete kit to collect old brake fluid and replace with new;
- Bleeding tube and shut off valves connects to the 2.7 litre container, prime the handle and watch it work;
- Includes refill pot that fits onto the brake fluid reservoir. When the level is reached it stops replenishing, continues when the liquid drops again. Prevents brake fluid overflow, (prevents air in system).

PETRO DIAPHRAGM HAND PUMP – PRODUCT CODE: HPD-CATA

- Suitable for use with diesel, water, sea water, bio diesel, kerosene, mineral oils, synthetic oils, engine oils, antifreeze, emulsions and liquids with up to 5mm solids;
- Wetted components: Thermoplastic, polyurethane, stainless steel and PVC;
- Temperature range -10°C to +40°C;
- Capable of up to 16lpm. Inlet/outlet 1" hose barb/tail ports;
- Works in any position, vertical, horizontal, even upside down;
- Can be used as a bilge pump to evacuate standing water;
- Pump kit comes complete with 2m long x 1" hose for suction/discharge, hose clips and delivery spout.
WARRANTY POLICY

1. PETRO Industrial warrants that each new and unused item of equipment (hereinafter called the Product) is of good workmanship and is free from mechanical defects, provided that:
   • The Product is installed and operated in accordance with the operators manuals / instructions as provided by PETRO Industrial.
   • The Product is commissioned by suitably qualified staff.
   • The Product is used under normal operating conditions for which it is designed.
   • The Product is not subject to misuse, negligence or accident.
   • The Product receives proper care, lubrication, protection and maintenance under the supervision of suitably qualified personnel.

2. This warranty expires 12 months after shipment, or advice that the Product is ready to ship, (whichever occurs first) by PETRO Industrial to the first user. PETRO Industrial offers a 3 month warranty for any dispensing component not already having its own inherent manufacturers warranty.

3. PETRO Industrial excludes expressly any on site repairs, except where the Product has been installed or commissioned by PETRO Industrial or its authorised representatives.

4. This warranty does not apply to:
   - Fluids
   - Filters
   - Fuses
   - Bulbs
   - And other consumable or normally wearing type items unless found to be defective prior to use.

5. PETRO Industrial does not warrant the following components:
   - Engines (Gasoline or Diesel)
   - Compressors (Air or Freon)
   - Storage Batteries
   - Engine Starters
   - Generators
   - Alternators
   - Regulators
   - Governors
   - Transmissions
   - Hoses
   - Nozzles
   - Any other Product having its own inherent warranty.

Many of the foregoing components are warranted directly by the manufacturer and are serviced by a worldwide network of distributors and others authorised to handle claims for component manufacturers. A first user's claim should be presented directly to such an authorised component service outlet.

In the event any component manufacturer has warranted its component to PETRO Industrial and will not deal directly with a first user, then PETRO Industrial will cooperate with the first user in the presentation of a claim to such manufacturer.

Warning
At all times, safety must be considered an important factor in the installation, servicing and operation of the product. Skilled and technically qualified personnel should always be employed for such tasks.

Under no circumstances does PETRO Industrial assume any liability for any warranty claim against or warranty work done by, or on behalf, of any manufacturer of the foregoing components.

6. This warranty is extended by PETRO Industrial only to the purchaser of new Products from PETRO Industrial or one of its authorised distributors. The products purchased under this warranty are intended for use exclusively by the buyer and its employees and by no other persons and, therefore, there shall be no third party beneficiary to this warranty.

7. A claim of defects in any Product covered by this warranty must be in writing and is subject to PETRO Industrial inspection and judgment. PETRO Industrial’s liability is limited to repair only. PETRO Industrial will replace the defective product, F.O.B. factory, once the purchaser, at its expense, has returned the defective product to PETRO Industrial’s nominated shipping place.

Replacement and exchange parts will be warranted for the remainder of the original warranty, or for a period of ninety days, whichever is the greater.

8. Under no circumstances whatsoever shall PETRO Industrial and its authorised distributors be liable for any special or consequential damages, whether based on goodwill, lost resale profits, work stoppage, impairment of other goods or otherwise, and whether arising out of breach of any express or implied warranty, breach of contract, negligence or otherwise, except only as may be required by applicable law.

9. Continued use of Product (s) after discovery of a defect voids all warranties.

10. Expect as authorised in writing, this warranty does not cover any equipment that has been altered by any party other than PETRO Industrial.

11. There are no warranties which extend beyond the description of the face hereof. PETRO Industrial makes no warranties, express or implied, of merchantability or fitness for a particular purpose.

12. PETRO Industrial neither assumes nor authorises any person for PETRO Industrial any liability in connection with the Products sold, and there are no oral agreements or warranties collateral to or affecting this written warranty.

13. The laws of the State of Queensland, Australia hereunder shall govern this warranty and all undertakings of PETRO Industrial.

Warning
At all times, safety must be considered an important factor in the installation, servicing and operation of the product. Skilled and technically qualified personnel should always be employed for such tasks.
1. Definitions

1. In these terms and conditions, unless the context otherwise requires:

   1.1.1.1 below) or as agents for sellers sell and quote for the sale of goods.

2. Interpretation

2. Any terms and conditions specified on a Quotation or Sales Invoice shall, to the extent they are inconsistent with these terms and conditions, take precedence over these terms and conditions.

3. Governing Terms and Conditions

3. These are the only terms and conditions which are binding upon a Seller with the exception of those otherwise agreed in writing by the Seller which are not inconsistent with this Act or any other Act or instrument under which the Seller has derived the benefit of any non-excludable condition implied by law, such as those in the Trade Practices Act 1974 (Cth).

4. Terms of Payment

4. The Buyer agrees to be bound by any conditions attaching to the Buyer's order for acceptance of a Quotation and such conditions are expressly accepted by the relevant Seller in writing, the Buyer acknowledges that such conditions are expressly negated.

5. GST

5. Each Seller reserves the right to make part deliveries of any order, and each part delivery shall constitute a separate sale of goods upon these terms and conditions. A part delivery of an order shall not invalidate the balance of an order.

6. Supply

6. Each Seller reserves the right to suspend or discontinue the supply of goods to the Buyer without being obliged to give any reason for its action.

7. Installation

7. A Seller's Quotation or Sales Invoice is made on a supply only basis. Installation and commissioning (if any) is at the expense of the Buyer unless otherwise agreed to by the Seller in writing.

8. Dimensions, Performance Data and Other Descriptive Details

8. If a Seller fails to supply goods or such other goods or such other period as stated in it. A quotation is not to be construed as an obligation to supply goods or such other goods or such other period as stated in it. A quotation is not to be construed as an obligation to supply goods.

9. Returns

9. Returns will be accepted for faulty or defective goods or any other non-excludable obligations of the Seller set out in the Trade Practices Act 1974 (Cth) or similar State and Territory legislation.

10. Supply

10. The Buyer reserves the right to inspect and supply the goods to the Buyer. Any objection based on non-conformity of particular goods on receipt may be made in writing to the Seller within seven (7) days from the receipt of those goods, or such other period as stated in it. A quotation is not to be construed as an obligation to supply goods or such other goods or such other period as stated in it. A quotation is not to be construed as an obligation to supply goods.

11. Part Deliveries

11. A Seller may make part deliveries of any order, and each part delivery shall constitute a separate sale of goods upon these terms and conditions. A part delivery of an order shall not invalidate the balance of an order.

12. Installation

12. A Seller's Quotation or Sales Invoice is made on a supply only basis. Installation and commissioning (if any) is at the expense of the Buyer unless otherwise agreed to by the Seller in writing.

13. Charges Beyond Point of Delivery Quoted

13. If otherwise agreed in writing, if a Seller prepays freight, insurance, custom and import duties (if any), landing and delivery charges and all other expenses of purchase or delivery of the goods, then any such charges shall be to the Buyer's account.

14. Force Majeure

14. The Seller may not be held liable for any loss or damage the Buyer may sustain as a result of such refusal. The costs of collection of any moneys are to be borne by the Buyer, including the cost of any mercantile agent or lawyer engaged by the Seller.

15. Buyer's Cancellation

15. If the performance or omission of any obligations of the Seller is prevented, restricted or affected by reason of a force majeure event including voluntary or compulsory national or international strike, lockout, industrial dispute, breakdown of plant, transport strike, or any other business beyond the reasonable control of the Seller, the Seller may, in its absolute discretion give prompt notice of that cause to the Buyer. On delivery of that notice the Seller is entitled to rescind the contract and to retain any goods already delivered.

16. Curr

16. Any charge, duty or tax imposed, or any other expenditure which may be incurred by the Buyer or the Seller in relation to such goods or the cost or expense in the Seller's or any other仪器 participating in, associated with or given in a Quotation, descriptive literature, website or catalogue approximates the goods offered but may be subject to alteration without notice and without obligation on the part of the Seller.

17. To the extent that notifications to the Buyer, the period of shipment or delivery notified to the Buyer will be the contractual period for shipment or delivery. The Buyer reserves the right to apply to all deliveries with the exception of back order deliveries which are part of an original order that has been partly fulfilled.

18. Manufacturers’ Changes

18. Where a Seller acting as a manufacturer or supplier, the Seller shall not be liable for any alteration or variation in the goods made by this manufacturer or the supplier.

19. Warranty

19. The Seller makes no express warranties under this Agreement except that to the extent that the goods supplied are covered by the manufacturer's warranty, the Seller will pass on to the Buyer the benefit of the manufacturer's warranty.

20. Cancellation

20. If otherwise agreed in writing, the Buyer shall have no right to cancel an order which has been accepted by a Seller if a request for cancellation is exercised by the Buyer before the time of delivery or the time for performing the contract by the Seller or the time for delivery or the time for performing the contract by the Seller.

21. Buyer's Cancellation

21. Any performance data provided by a Seller or a manufacturer is an estimate only and should be construed accordingly.

22. Photographs, diagrams and samples

22. Any reference to a cost or expense in this Agreement excludes any amount in respect of GST forming part of the relevant cost or expense.

23. Alteration or variation

23. If a Seller prepays freight, insurance, custom and import duties (if any), landing and delivery charges and all other expenses of purchase or delivery of the goods, then any such charges shall be to the Buyer's account. Each Seller reserves the right to make part deliveries of any order, and each part delivery shall constitute a separate sale of goods upon these terms and conditions. A part delivery of an order shall not invalidate the balance of an order.

24. Vienna Sales Convention

24. The Buyer is not entitled to rescind a contract in consequence of the non-fulfilment of a duty imposed or any other obligation imposed by the Vienna Sales Convention in respect of the goods.

25. G

25. The Buyer cannot be relieved of any obligation under this Agreement on the ground of the non-fulfilment of any duty imposed or any other obligation imposed by the Vienna Sales Convention.
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