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INNOVATIONS IN FUEL HANDLING
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WHAT TO LOOK FOR WHEN CHOOSING A FUEL PUMP

There are three main questions to ask when choosing a fuel pump system that is suitable for your needs:

Q1 How Fast
Do you want to refuel your vehicles?

Q2 How Accurately
Do You Want To Measure The Fuel You Use?

Q3 Where
Is your fuel storage tank?

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WHAT TO LOOK FOR WHEN CHOOSING A FUEL PUMP

In today's fast paced digital world, it can be a little bit hard at times to go through all the options available to you and find the item you're looking for. When it comes to pumping fuel, the vast amount of options is almost daunting.

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WHAT TO LOOK FOR WHEN CHOOSING A FUEL PUMP

Q1 How Fast

Do you want to refuel your vehicles?

The three main flow breaks are listed below.

Low Speed 40LPM

Suited for Cars, light vans, forklifts, jerry cans and small plant equipment.

Medium Speed 60LPM

Suited for Large vans, small rigid trucks, agricultural vehicles and large industrial plant equipment.

High Speed 80LPM

Ideal for filling vehicles with large capacity fuel tanks such as buses & coaches, articulated vehicles, heavy plant equipment and quarry/mining equipment

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HOW FAST?

You will want to refuel your vehicles as quickly as possible – this is a given. No one wants to fill up slowly. However, if the fuel pump dispenses at too fast a speed it can create splashback and excessive frothing in the vessel being filled, causing spillage, wasted fuel and the possibility of excessive frothing.

If you are using an automatic shut off nozzle, the froth produced from too high a flow can trip your nozzle sensor. This means drivers have to repeatedly wait for the froth to settle & then top up the tank, thereby slowing down the refuelling process.

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WHAT TO LOOK FOR WHEN CHOOSING A FUEL PUMP

Q2 How Accurately

Do You Want To Measure The Fuel You Use?

The accuracy percentage is how closely the fuel figure shown on the pump matches the quantity of fuel actually drawn. As you can understand, if you dispense more or less than is shown on your meter, records will be inaccurate.

Example of a +/-2% pump If a driver fills a vehicle with fuel until 100 litres is shown on the pump display then it means he actually delivered anything between 98 & 102 litres (100 litres +/- 2%) This gives an uncertainty of 4 litres, not including all other factors present at the time that could affect meter accuracy.

Example of a +/- 0.5% pump If a driver fills a vehicle with fuel until 100 litres is shown on the pump display then it means that he actually took between 99.5 & 100.5 litres (100 litres +/- 0.5%) This gives an uncertainty of 1 litre, 4 times better than the +/- 2% pump.

The same theory applies to your overall fuel usage. If the total of all your individual refuelling adds up to 10,000 litres in a month then you actually used between 9,800 & 10,200 litres if you have a +/- 2% accuracy pump. This is an uncertainty of 400 litres a month! Being uncertain about that much fuel could cost a lot of money.

REMEMBER:

All key and card operated fuel monitoring systems connect to the output of the meter in the fuel pump. This means that the figures produced by your fuel monitoring system can only ever be as accurate as the meter it is connected to. If you have a worn, old or inaccurate fuel meter don't expect your fuel monitoring figures to be any better!

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HOW ACCURATE?

This is a crucial question if you wish to keep track of your fuel usage. Higher accuracy metering will cost more but if you are using any significant quantity of fuel you may quickly recover the extra cost. Lower accuracy, lower cost metering should ideally suit the smaller fleet. There are two basic types of meter in most fuel pumps sets, detailed below.

Nutating Disc Meters.

Approximate accuracy of +/- 2%

Accuracy varies with delivery speed and fuel type

Should be calibrated after installation and regularly checked

If topping up tanks to the brim, the accuracy will be lowered further

Oval Gear Meters

Accuracy of +/- 0.5%

The actual accuracy will be constant at different delivery speeds, so topping tanks up to the brim will not cause a problem

Check calibration after installation but only re-check annually unless you have a particularly high fuel usage

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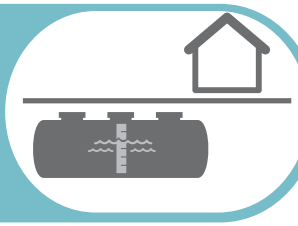
WHAT TO LOOK FOR WHEN CHOOSING A FUEL PUMP

Q3 **Where**
Is your fuel storage tank?

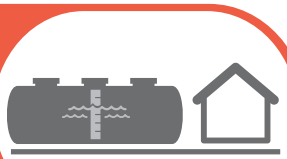
Below Ground Tank

You will need a pump with enough suction strength to pull from the tank, depending on how deep it is.



Above Ground Tank

Suction lift is necessary but you need to be careful that the installation is protected against leakage in the event of damage to the dispensing equipment.



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WHERE IS YOUR FUEL STORAGE TANK?

The pump you decide to install will only work correctly if properly connected to the storage tank. A high flow pump won't deliver at its intended flow rate if a suction that is too small is fitted. It is always best to check the pump specifications and how well it will match the system you are trying to fit it in to. There is no point purchasing a pump with a two meter suction lift if your system requires a four meter suction.

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FINALLY

If you have any doubt about your installation or want advice on what will best suit your operation, the sales team at Equipco can offer you advice for the best system to suit you.

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WHAT TO LOOK FOR WHEN CHOOSING A FUEL PUMP

Highly Efficient Fuel Transfer Pumps for Diesel, Petrol, Oils or AdBlue

Transfer fuel quickly and smoothly with Equipco's diesel fuel, petrol, oil and AdBlue industrial fuel transfer pumps. Our range of fuel pumps in Australia includes options utilising state-of-the-art technology, giving you the power to manage the flow of your fuels, oils or AdBlue in the most reliable way for your business.

Explore Our Range of Fuel Pumps in Australia

Electric pumps
Air operated pumps
Hand/manual pumps
Engine driven pumps
Graco pumps
Fillrite pumps
Gear pumps

As leading suppliers and distributors, we also have a large 12 volt fuel transfer pump range that include options with various features such as bypass valves, rotating drum connectors, automatic shut off nozzles with swivels, and much more. These features are all part of our commitment to ensuring you get the best fuel dispenser pump or transfer pump for your specific application.

40 LPM 12 OR 24 VOLT DIESEL PUMP KITS

High quality Diesel Pump Kit for refuelling operations from drums, tanks or mobile refuelling carts.

FILL-RITE PETROL PUMP KITS

The FILL-RITE range of SAA approved 12 Volt, 24 Volt and 240 Volt Petrol-Diesel Pumps are simple in design, extremely heavy duty with efficient low current consumption.

AIR OPERATED DIAPHRAGM PUMPS

Rugged construction - Resists corrosion for reliable performance and long life

Designed to last - Heavy duty design offers long life, increased productivity and lower overall cost of ownership

60 LPM 12 OR 24 VOLT DIESEL PUMP KITS

Diesel Pump Kit for refuelling operations. 60 LPM flow for large fuel tanks. High performance pump for contractor use.

ELECTRIC DIESEL PUMPS 240V

Heavy duty self-priming vane pump, powered by 240 Volt AC motor. Exclusive fluid transfer optimisation system which increases efficiency and performance.

SUPER FLOW ROTARY PUMPS

Ideal for refuelling on and off road vehicles, large machinery and optional model for aircraft with modified filter-hose kit.

85 LPM 12 OR 24 VOLT DIESEL PUMP KITS

Excellent for auto nozzle volume flows. Used in fuel trailers, stationary or mobile tanks, trucks or utes.

240V/3PHASE PUMPS

50mm self priming centrifugal pump with 2 HP motor. 80mm self priming centrifugal pump with 5.5 HP motor. 3 phase.

ENGINE DRIVEN PUMPS

Equipco's range of Heavy Duty industrial cast iron self priming pumps are powered by Diesel engines from 4.2 HP to 20 HP and suit a broad range of applications in mining, construction and marine.

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