

Aviation Refuelling Equipment

from
Australian Fuelling Systems & Equipment



Tanks



Vehicles



Pumps



Flow meters



Filtration

Freecall: 1800-025 869 Freefax: 1800-654 732
International: +612 6760 7816 Email: sales@fuelequipment.com

fuelequipment.com



Australian Fuelling Systems & Equipment

Hi,

Thanks for looking over our catalogue.

We've been in the business of manufacturing and sales of fuel handling equipment for over 27 years and this brochure shows just some of our equipment.

Over those years we have built up a comprehensive range of equipment and knowledge of the storage, handling, and delivery of clean, dry aviation fuels - for private, GA and commercial applications. Our range includes conventional and self-bunded storage tanks, mobile refuelling systems both truck and trailer mounted, pumping equipment with manual, electric, pneumatic and engine powered sources, bulk filtration and fuel quality testing systems.

We also provide installation and commissioning services as well as ongoing periodic system audits and maintenance if required.

We welcome your enquiry on any of your aviation fuel handling equipment requirements, please call us on 1800-025 869, email at sales@fuelequipment.com or visit our website at www.fuelequipment.com

Regards

Greg Johnston
Managing Director

Australian Fuelling Systems & Equipment

Freecall: 1800-025 869 Freefax: 1800-654 732

International phone: +612 6760 7816

Email: sales@fuelequipment.com

fuelequipment.com

Self-bunded Aviation Fuel Tanks

Australian Fuelling Systems & Equipment manufactures a wide range of aviation fuel storage tanks. These include self-bunded and conventional single skin tanks. We also specialise in the design and fitting of all required dispensing, filtration, metering and management equipment. All systems are thoroughly wet tested prior to despatch to minimise onsite works and commissioning.

Australian
designed &
manufactured

With 304
Stainless Steel inner and
outer tanks, ladder, platform
& fixtures

This 50,000 litre self-bunded tank is constructed entirely of Grade 304 stainless plate. Offers virtually maintenance-free operation, particularly in aggressive marine environments. Fully compliant to AS1940, AS1692 and AS1657 as well as all requirements for aviation fuel storage.



Dewater/sampling pump installed with anti-siphon valve for operation from ground level

Features

- Inner & outer tanks and all attachments & fixtures manufactured from Grade 304 stainless steel
- 30:1 sloped tank floor with sump
- Virtually maintenance free in almost any environment
- Dewatering/sampling pump accessible & operable from ground level
- Ladder & platform in compliance to AS1657 - can be mounted either side of tank
- Floating suction options available
- Australian designed & manufactured to AS1940, AS1692 and AS1657
- Cranage lift points fitted (empty lift only)



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Custom *fuelling* solutions

Our People

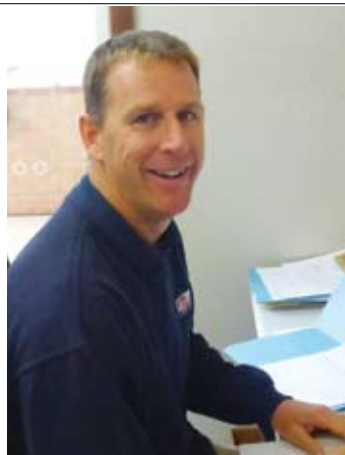
As in any small business - it's the people that make it work. Shown below are the key people within Australian Fuelling Systems & Equipment - these are the people you will interact with in your dealings with us and all will strive to give you the best service possible. All of our people have a wealth of knowledge and experience in our industry as well as in-depth knowhow in their respective fields.



Phil Frear
Aviation Specialist & Design Mgr



Sharyn Dillon
Office Manager



Peter Murray
Financial Controller



Chris Cameron
Storeman



Grahame Dunn
Draughtsman



Greg Scott
Sales

Australian Fuelling Systems & Equipment

PO Box 7162 NEMSC 2348 7-11 Armstrong Street Tamworth 2340

Ph: +61 2 6760 7816 Fax: +61 2 6760 7826

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Custom *fuelling* solutions

Our People



Andrew Frear
Production Manager



John Fisher
Workshop Foreman



David Collison
Service Manager



Greg Johnston
Managing Director



Grant Dewhurst
Business Manager



Mobile service fitters



This year (2015) marks 27 years in the petroleum fuel equipment industry for us and throughout we have striven to provide the best quality solutions to the many and varied requirements of our customers.

We now have a huge range of products, manufacturing facilities, experienced & qualified tradesman with skills and knowledge to provide whatever products and equipment our valued customers require.

We take great pride in both the quality of our products as well as the high standards of compliance to best practices within our industry.

Australian Fuelling Systems & Equipment

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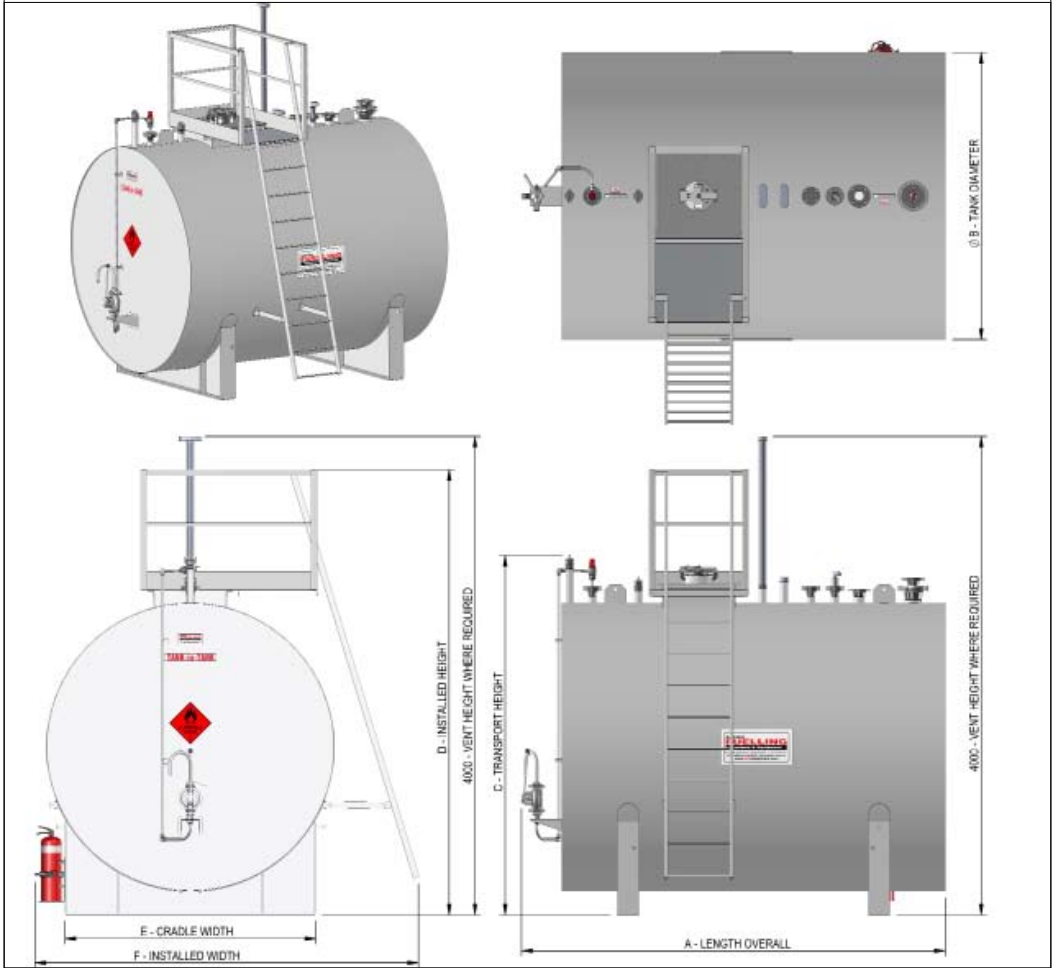
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Self-bunded Aviation Fuel Tanks

Our range of self-bunded aviation fuel tanks now feature construction entirely of Grade 304 Stainless Steel - includes the ladder & access platform. Piping & valves are in 316 Stainless with some items of aluminium - thus virtually making these tanks maintenance free. The range includes tanks from nominal 5,000 litres to 50,000 litres (see table) Built in compliance with AS1940, AS1692 and AS1657 as well as the special features required for safe storage and handling of aviation fuels.



JET-A1	AvGAS	Type	SFL	A	B	C	D	E	F	Mass
123210	123211	T5	5000	3270	1600	2450	2450	1400	2130	920
123212	123213	T12	11260	3550	2412	3000	3730	2100	3210	3750
123214	123215	T22	20840	6100	2412	3060	3730	2100	3210	5150
123216	123217	T35	32640	6600	2860	3430	4180	2350	3510	6400
123218	123219	T50	48750	9570	2860	3430	4180	2350	3510	9200

aviationfueltanks.com

General Information - Aviation

The following information is provided for general guidance only on topics as shown. No responsibility is accepted for any outcomes or situations arising from your interpretation of any of the guides. In all cases it is recommended that a qualified consultant be engaged to guide your installation of fuel storage and dispensing systems.

Aviation fuel tanks

Our tanks are specifically designed and incorporate features required for the safe storage & dispensing of aviation fuels. With 304 stainless steel inner tanks, 30:1 sloped floors, collection sumps with sampling/dewatering pumps that are operable from ground level, our tanks meet all requirements of the major suppliers of aviation fuel.

Compliances

Tanks constructed by Australian Fuelling Systems & Equipment are built to the following Australian Standards **AS1692-2006** Steel tanks for flammable and combustible liquids **AS 1940-2004** The storage and handling of flammable and combustible liquids

AS1657 Fixed platforms, walkways, stairways and ladders - Design construction and installation. Other compliances to many Australian & International aviation industry standards.

We have a rigorous QA testing regime which every tank undergoes prior to delivery.

Plug & Play systems

As much as possible, our tanks are generally ready to go when delivered - except for assembly of the ladder/platform which is shipped separately. The ladder can be installed on either side of the tank to suit your installation.

We prefer to install any specified dispensing equipment or other accessories so that we can wet test complete operation of the whole system prior to despatch.

This means that onsite work is minimised to provision of suitable footings, connection of required power supply and filling for operation.

Retailing fuel

We can supply and fit, calibrate & certify all required dispensing equipment to National Measurement Institute standards for legal reselling of fuels if required.

Floating suction

Floating suction assemblies are optionally available on all of our cylindrical aviation fuel tanks.

Site Requirements

Site requirements (foundations, footings, location, proximity to major works etc) for fuel tanks are as described within AS1940-2004. Foundations & footings will need to be determined by a properly qualified person with local knowledge of terrain & soil types.

It is highly recommended that a properly qualified Dangerous Goods Consultant (member of the Australian Institute of Dangerous Goods Consultants) be engaged to advise on all aspects of Class 3 Flammable Liquids storage and dispensing systems.

Tank filling methods

Self-bunded tanks compliant to AS1940 must be filled via a "tight-fill" connection to ensure proper operation of the overfill prevention system. Connection to the inlet is usually by a product selective Kamlok.

Where delivery tankers are not fitted with a transfer pump, we can design the pumping system to carry out infilling as well as dispensing functions - usually at different flow rates.

Warranty

Our tanks have a 20 year warranty for integrity when used in accordance with standard industry practice. All equipment fitted is covered by 12 month warranty for performance as specified and to the limits of the manufacturers warranty.

24/7 Unattended Fuelling

All systems can be provided with a 24/7 unattended refuelling facility. The installation of this facility will require some onsite work in that the console is required to be located a minimum of 8 metres from the storage and other Hazardous areas. Systems can accept major credit cards, Carnet cards or a combination of both.

Dispensing systems

Getting the fuel out of your tank into aircraft requires much planning and consideration of your requirements. Basic considerations are:
Flow rate required (in litres per minute at the nozzle outlet)
Hose length & hose storage method, hose protection, hose certification.
Nozzle type - over or underwing types or both
Pump system & pressure requirements.

Power requirements to achieve desired flows (See separate entry on this page)
Flow meter - is the system to be used for reselling? Register visibility.
Filtration - on delivery only or into storage as well as delivery.

Onsite Commissioning

If required, we can provide expert help to install and commission your aviation refuelling system. We can also provide periodic inspections/ audits and filter element renewals

Power/flow requirements

As a general guide & depending on the tank size accessories included, a 240v ac single phase power supply will enable a delivery flow rate of up to a maximum of approximately 60-75 lpm. Systems which utilise an underwing nozzle will generally require a 3 phase 415v power supply to achieve required pressure/flow rate. 12 & 24v DC systems are "low flow" options which are capable of flows up to approximately 40-50 lpm. We can supply a suitably sized generator set or solar power module if required.

Note: all fluid from a compliant self-bunded tank has to be delivered through an anti-siphon valve which reduces flows somewhat.

Transporting your tank

We can arrange quotation for delivery of your tank or you can arrange this yourself. Generally, you will also need to organise & co-ordinate a crane to unload & place.

Enquiry? - call 1800-025 869 or email sales@fuelequipment.com

aviationfuel tanks.com

Airport Installation

System shown below was designed, built and installed at a SW Queensland airport for refuelling a wide variety of aircraft. Capable of both over wing and single point refuelling with certified metering for resale. 22,000 litre all-stainless, self-bunded storage tank with high-flow infill pump. Fitted to filter fuel both in and out of tank. Dispenser fitted with digital high visibility register.



View of complete installation showing tank, stainless pipework, electrical and dispenser.



Dispenser with high capacity hose reel, filter, static reel and over and under wing refuelling nozzles.



Tank infill and dispensing pumps. Fitted with filtration, pressure differential gauge, emergency stop.



22,000L All stainless, self-bunded tank.

Features

- Pump systems for infill from tanker and for delivery to dispenser
- All-stainless 22k self-bunded storage
- All-stainless pipework & fittings
- Provides both over wing and single point refuelling with dual flow rates to suit.
- Approved metering for resale
- High visibility digital meter register for easy remote viewing.
- Dewatering/sampling pump operable from ground level

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Remote Fly in - Fly out Installation

Australian Fuelling Systems & Equipment manufactures a wide range of aviation fuel storage tanks. These include self-bunded and conventional single skin tanks. We also specialise in the design and fitting of all required dispensing, filtration, metering and management equipment. All systems are thoroughly wet tested prior to despatch to minimise onsite works and commissioning.



The pumping system installed in this facility allows delivery to refuel air-craft with both over and under wing fill types, as well as provide rapid in-fill from delivery tanker. The pumping system requires 415v 3-phase power supply - this is supplied by a genset which is located outside the zone as shown. Shows the connection point for inflight system. Simple operation of valves diverts flow from the refuelling system to the inflight system.

24/7 Unattended Refuelling



Almost all refuelling systems can be set to offer 24/7 unmanned operations. Shown is a 22,000 litre self-bunded tank set up with credit card acceptor. Fitted with a Compact card acceptor, the system accepts major credit cards. All dispensing equipment is securely stored in lockable alcove of tank, allowing control over access. Card acceptors can be installed to accept Carnet cards, major credit cards or both. Connection to communications can be via landline or wireless modem.

Enquiry? - call 1800-025 869 or email sales@fuelequipment.com

Airport Installation

Commercial on-airport Avtur refuelling system - includes 22,000 litre storage, on-demand pump delivery system, remote dispenser with NMI approved-for-resale metering system. Fitted with closed circuit fuel quality testing station, pressure differential gauge across filter, high visibility digital register for remote reading, powered hose rewind.

With all piping, valves & fittings in 316 stainless steel, the tank is equipped with pumping system to load into tank from delivery tanker and to supply fuel to the dispenser some 70m's away.



Remote pump system delivers fuel on demand to airside dispenser as well as unload bridge



Closed circuit fuel testing station and pressure differential indicator for filter element monitoring. High visibility digital register - display is fitted with glare shield and swivel. allows precise fuel measurement - display is fitted with cumulative totals and rate of flow.

Digital register allows precise per delivery totals and tank with inspection hatch, emergency vent & drain. Custom fabricated slops tank with inspection hatch, emergency vent & drain.

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Helicopter refuelling system

Complete helicopter fuel storage & refuelling system built and installed by Australian Fueling Systems & Equipment. With a 35,000 litre self-bunded tank, on-demand pump system, underground stainless piping supplying fuel to hydrant pits and a mobile hydrant cart, this system provides the ultimate in safe, convenient, clean & dry refuelling. Built to service the needs of the Westpac Rescue Helicopter, the system is set up for reliable 24/7 use and includes a backup engine driven system.



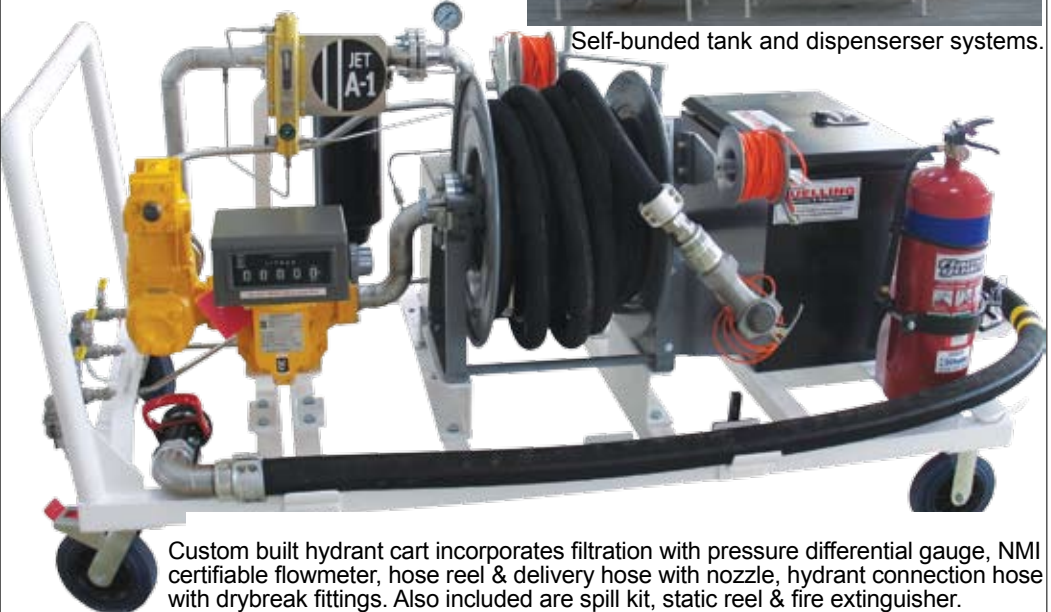
Shows hydrant cart connected to fuel supply in pit.



Self-bunded storage tank with on-demand pump system and emergency backup refuelling equipment



Self-bunded tank and dispenser systems.



Custom built hydrant cart incorporates filtration with pressure differential gauge, NMI certifiable flowmeter, hose reel & delivery hose with nozzle, hydrant connection hose with drybreak fittings. Also included are spill kit, static reel & fire extinguisher.

Single Skin Stainless Aviation Fuel Tanks

A range of conventional single skin aviation tanks from 2500 to 50,000 litres. constructed of Grade 304 stainless steel, these tanks offer virtually maintenance free operation in almost any environment. Built with all required features for safe, compliant use with aviation fuels. Available painted or unpainted. Signage supplied but not fixed for transport.



Made from Grade 304 stainless steel

20,000 litre tank with 240v dispenser system with 20m hose, filtration & flowmeter

Elliptical Stainless Aviation Tanks

Cylindrical Stainless Aviation Tanks



5000 Litre



5000 Litre

- 5000 litre capacity, elliptical or cylindrical tanks for aviation fuel.
- 30:1 sloped tank floor
- Collection sump with stainless drain valve
- 600mm man access hatch
- 9kg fire extinguisher & bracket
- All statutory signage
- Stainless discharge valve 40mm
- Calibrated dipstick
- All welds passivated
- 270mm inspection hatch
- Riser pipes for vents to 4m from ground
- Forklift pockets
- Wide range of dispenser sets available

aviationfueltanks.com

Infill & Dispensing Systems

A sample of custom designed systems to handle aviation fuels into and out of self-bundled storage tanks. Systems can include filtration in and out, reversible flow direction to dispense to aircraft as well as rapidly unload delivery bridgers.



System with variable speed drive to accommodate both over an single point refuelling nozzles.



System with variable speed drive to pump with high flow filtration into storage and out to delivery nozzles.



This system has filtration at high flow in and out to refill an on-airport refuelling vehicle.



This system with over and under wing refuelling & completely powered by a 3 phase genset.



System with closed circuit test, millipore sampling point and high visibility digital register.



Dispenser system with overwing and single point refuelling, high visibility register.

Refuelling Trailers for Class 3 Flammable Liquids with Dangerous Goods Approvals

Designed and built with all requirements to allow registration as a Dangerous Goods Vehicle allowing transport of Class 3 Flammable Liquids on public roads. These vehicles are built in compliance to AS2809 1 and 2 and can be fitted with either DC or engine-powered dispensing systems. Available in 1000, 1500 and 2000 litre capacities. For larger capacities please call. These vehicles are mainly used for onsite refuelling of aircraft but are also suitable for transport of petrol.



**Australian
designed &
manufactured**

Suitable for Class 3 Flammable Liquids including:

- ULP/PULP
- Jet-A1
- Mogas
- AvGas
- Kerosene
- Solvents

These trailers have designed and plated to enable registration in all States & Territories of Australia as a Dangerous Goods Vehicle for the transport of Class 3 Flammable Liquids on public roads.

Please be aware that it is your responsibility to arrange this registration with the relevant authority in your State or Territory.

Please note that there other requirements that need to be complied with, that are separate from the trailer - these include (among others) that the driver have a current Dangerous Goods Licence, that the towing vehicle comply with certain provisions of AS2809 1 & 2, that the required safety equipment is carried within the cab of the towing vehicle. This is not an exhaustive list and potential users need to ensure that systems, vehicle and driver are aware of all requirements prior to use.

Fully self-contained

These vehicles are equipped to operate in remote locations and all required equipment is built-in.

Supplied with all requirements for Dangerous Goods Vehicles including:

- Spill kit
- First aid kit
- Traffic warning triangle signs
- Flameproof torch
- Choose either diesel engine-powered or DC pump systems
- Suitable for AvGas or JET-A1

Australian Fuelling Systems & Equipment

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email: sales@fuelequipment.com

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Refuelling Trailers for Class 3 Flammable Liquids with Dangerous Goods Approvals

These trailers are supplied fitted with Dangerous Goods compliance details plate as well as current hydrotest plate to enable licensing and registration as a Dangerous Goods Vehicle.



NMI Approved for resale of fuel system fitted to a 2000 litre trailer.

Trailer dispenser system equipped to allow both over and under wing refuelling.



Models Available

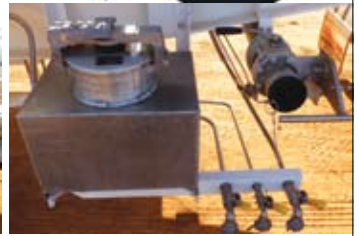
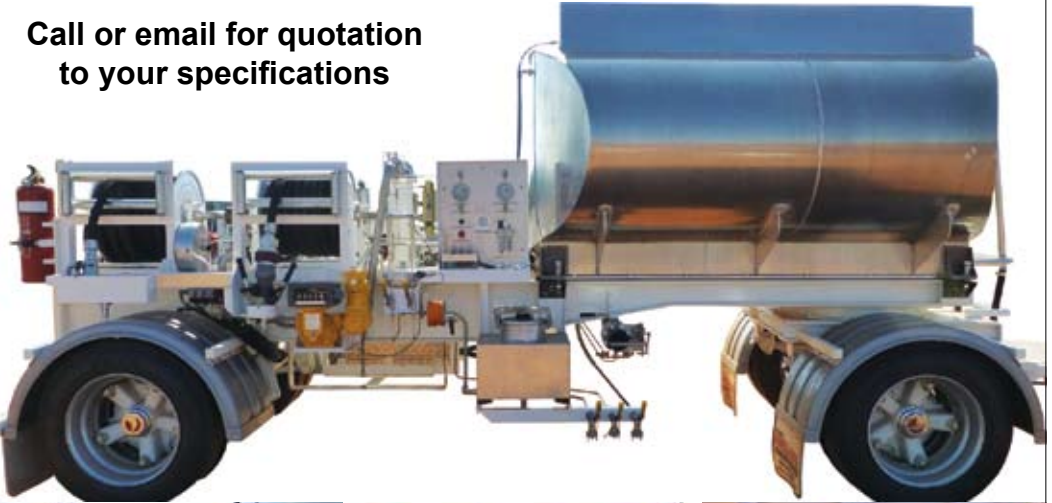
AVGAS	JET-A1	Capacity	Dimensions (approximate)
410071	410074	1000 litre registerable	Width 2035mm - Hght 1590mm - Lgth 4340mm
410070	410075	1500 litre registerable	Width 2035mm - Hght 1590mm - Lgth 5430mm
410032	410076	2000 litre registerable	Width 2035mm - Hght 1590mm - Lgth 5450mm

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Refuelling Trailers for Class 3 Flammable Liquids

JET-A1 refuelling trailer with 5000 litre tank - with over wing and single point nozzles, comprehensive fuel quality testing equipment, hydraulically operated pumping system and hose reel rewind. Fitted with NMI approved dispensing system for resale of fuel, this trailer is built in compliance with all regulations for highway use - available with or without DG Approvals. This vehicle available with capacities up to 10,000 litres.

**Call or email for quotation
to your specifications**



Fuel quality testing station

Dual hydraulic rewind hose reels
for over and under wing nozzles

Product recovery tank, drain &
sampling valves.

Vehicle features & Options

- 4000 to 10,000L capacities
- With or without DG Approvals
- Bottom or top fill tanks
- Over/Under or both nozzles
- NMI approved metering systems
- Comprehensive OH&S & operation manuals
- Fitted with 9kg fire extinguisher in heavy duty bracket
- Spill kit
- Supplied with all statutory signs - to be fitted on-site
- Safe access to tank top for fill/dipping with hand rail & step
- Choice of tow hitch systems
- Operator training & commissioning available



Mobile aviation refuelling systems can be trailer or truck mounted with overwing or single point refuelling (or both) and with or without full DG Approvals for use on public roads.

aviationfueltrailer.com

2000 Litre Registered JET-A1 Trailer for Hire

This 2000 litre trailer is for hire - vehicle is registered as a Dangerous Goods Vehicle to legally carry Class 3 Flammable Liquids (AvGas, Avtur, ULP) on public roads within the Commonwealth of Australia. Fitted with diesel engine-powered dispensing system, spill kit, fire extinguisher, static reel for safe operation. Operations manual and spare tyre included.



Proven, practical design - manufactured to highest specifications to allow registration as a Dangerous Goods Vehicle

NOTE

It is mandatory that the person towing this vehicle **MUST** have a current Dangerous Goods drivers licence

Available for AVGAS and JET-A1

FOR HIRE

Dispensing equipment & accessories



Features

- Yanmar pumpset
- 12 or 7 pin connection
- Spill kit
- Safety equipment fitted
- Registered for DG use
- Driver **MUST** have DG licence
- Calibrated dipstick
- Top fill
- Operations manual
- Spare tyre
- Stainless piping & fittings
- 20m delivery hose
- Available for AVGAS or JET-A1

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Fuel Quality Test & Pit Clean Trailer for AVTUR

Designed for safe and convenient operations on airports where there are underground piped systems with hydrant pits. This unit cleans water, fuel and debris from pits as well as providing comprehensive fuel quality testing facilities for fuel delivered from each pit. Has drybreak connectors for spill free connections. Vehicle is fully approved for transport of Dangerous Goods



Features

- Fitted with closed circuit fuel sampling system,
- Millipore system with calibrated tank with sight gauge to measure throughput, with all sampled fuel returned to main tank.
- Diesel powered compressor
 - Pneumatically operated valves & safety systems.
 - Tank fitted with overfill protection system
 - Flowmeter to ensure sample size
- Air-operated double diaphragm pump
- Twin pedestal spring rewind hose reels
- All 316 stainless pipe & fittings
- Weatherproof lockable cabinet
 - Consumables storage drawers
 - Reversible flows to empty tank
 - Worklights for night operation
 - Solar backup to power system
 - Fitted with spill kit



Operating equipment showing delivery and suction reels, air-operated diaphragm pump, closed circuit test system, product reversing valves.



Pneumatic controls and tank overfill protection system.

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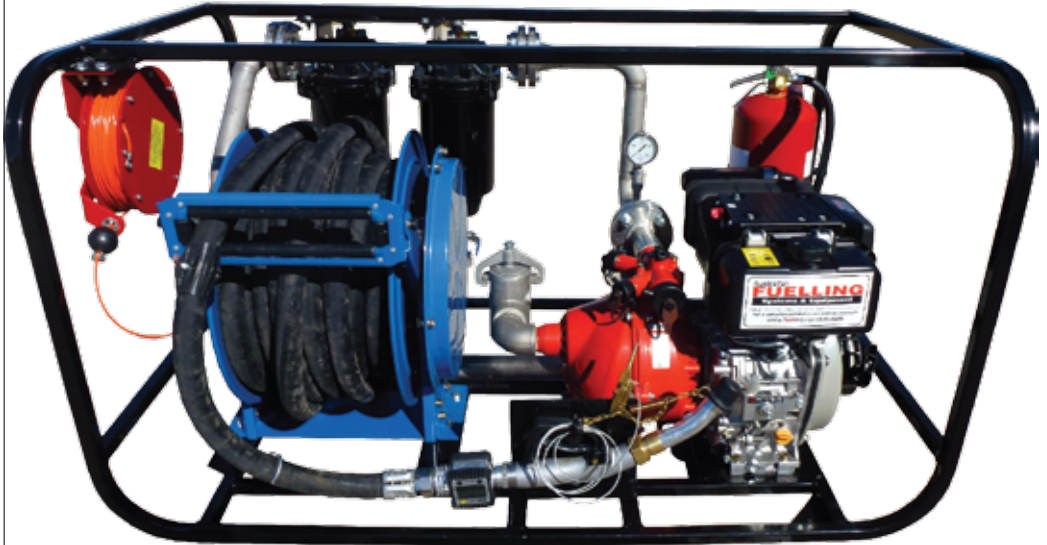
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Systems & Equipment

Diesel engine-powered aviation refuel Pumps

Designed and built to provide rapid & safe refuelling in the field, these pumps incorporate high quality components to provide clean, dry fuel to your aircraft. A wide range of hoses & accessories available to enable this system to carry out most "in the field" refuelling tasks.



Above shows a diesel engine-powered portable aviation fuel pump, designed for refuelling from drum stock. Designed and built for use by the Sri Lankan Air Force for their UN mission in the Sudan, Africa.

Picture at left shows SLAF and agent representatives, along with AFSE personnel with one of the pumpsets after performance and quality testing.

Note

You need to specify delivery and suction hoses, nozzle & swivel & any other equipment required to complete your pump system.

We can design and build engine-powered refuelling systems for any application - call for quote.

Features

- 30m static reel & clip - spring rewind with high visibility orange cable.
- Dual Facet filter housings for particulate and water removal.
- Stainless steel pressure gauge
- Heavy duty steel frame for safe handling & transport.
- Low point water drain with stainless valve and chained dustcap.
- 316 stainless piping & fittings
- All pipe assemblies pressure tested
- All stainless welding passivated
- Yanmar L48 diesel engine fitted with spark arrestor exhaust, mechanical engine strangler with lanyard for emergency stop.
- 38mm self-priming centrifugal pump
- 20m x 25mm delivery hose on spring rewind reel - 25mm over wing nozzle.
- Fitted with digital flow meter.
- 9kg fire extinguisher & bracket

aviationfuelsystem.com

12/24v DC & Manual aviation refuel Pumps

Australian Fuelling Systems & Equipment can design, build & supply a solution for in-the-field refuelling of your small aircraft - whether by 12 or 24v DC or manual systems. Pumps can be configured for use with drums, tanks or IBC's with your choice of nozzle, filtration, hose length, flow meter & static cable.

Fill-Rite



Fill-Rite 12 or 24v DC Pumps modified for use with aviation fuels. Can be configured with a wide range of equipment to suit almost any application.

Manual



High quality Japanese made geared rotary pump can be built up to suit most applications. Wil Velcon filter, stainless fittings and either aluminium or stainless suction tubes. This unit can be made to be fully sealable with Kamlocks for transport within the aircraft.

Carts



Custom built refuelling carts. Can be fitted with manual or DC pumps. Can be fitted for manual tow or use with any kind of tug vehicles.



Fill-Rite 12 or 24v DC Pumps built into a transportable frames for easy connection to supply tank.



300 Litre Trailer - with manual dispenser pump, spring rewind reel, filtration & nozzle.



Australian FUELLING Systems & Equipment

fuelerequipment.com

Miscellaneous Equipment

Australian Fuelling Systems & Equipment can design, build & supply a solution for in-the-field refuelling of your small aircraft - whether by 12 or 24v DC or manual systems. Pumps can be configured for use with drums, tanks or IBC's with your choice of nozzle, filtration, hose length, flow meter & static cable.

Nozzles



Elaflex ZVA ZVF25

25mm over wing nozzle with quick detach spout, conical strainer basket, spout cap & static lead with clip and plug.



The Liquip AVN042 has been designed as an easily operated nozzle for (overwing) delivery of aviation fuels. Unlike normal nozzles, it is equipped with "power assist" dashpot operation, making it as light as a service station bowser nozzle. The body, handle and trigger are made from heavy duty, light-weight aluminium.



Eaton's Carter product line includes a number underwing refuelling nozzle models suitable for the widest range of applications.

Hose Reels



Macnaught

Spring powered rewind Up to 20m's x 25mm hose. 316 stainless flow path. 25mm (f) in & 25mm (m) out.



Liquip

Available in 300mm, 450mm and 600mm widths. Geared manual rewind or hydraulic 38mm inlet/outlet Nickel coated flow path

Swivels



Swivels

Range of mxf swivels available to suit whatever nozzle is fitted

Static Reels



Manual and spring rewind static reels with clips.



Pressure and pressure differential gauges to manage filter element status and management.

Drum suction spears



Drum spears

Drum spears with various options can be supplied - including Kamlok connections, hose attached for closing into a sealed loop for dust free transport. Includes drum bung adaptor.

Water & Gauge Paste



We stock Kolor Kut water finding and gauging paste.

Aviation Filtration

We carry a wide range of aviation filter systems and replacement elements for many applications - from small 25mm units up to multi-element high flow systems suitable for filtration into storage as well as dispensing. Brands include Facet and Velcon

Parker Velcon

Filtration Solutions for Aviation Fuel Handling

Velcon Filters manufactures hundreds of different filter cartridges, with a range of filtration efficiencies in a variety of configurations, to meet specific industry standards. This includes a complete line of cartridges qualified to the latest editions of EI specifications (EI 1581, EI 1583 & EI 1590).



VF62
Filter
Housing



ACO51201L
Filter
Element

VF61E
Filter
Housing



VF31E
Filter
Housing

ACO21001P
Filter
Element



PECOFacet

Years of research and development have enabled PECO-Facet to create an expansive range of filter cartridges to meet the stringent cleanliness requirements of aviation fuels



VF21SB
Filter
Housing



CC21-7
Filter
Element

Bulk Aviation Filtration



Bulk Filtration

Most larger and commercial refuelling systems require filtration of fuel into storage as well as out. This is achieved with larger filtration vessels which contain multiple elements to achieve the desired result. Australian Fuelling Systems can specify and include any required vessel into your system - along with associated pressure monitoring and air elimination devices. Shown left are examples of these bulk filtration vessels integrated into pumping systems on self-bunded tanks.

**Australian
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Systems & Equipment

Aviation Delivery & Suction Hose Assemblies

Australian Fuelling Systems & Equipment assembles & tests aviation hose assemblies to your specification. Each assembly is hydrostatically tested and tagged. We also can supply adaptors, hose beads & trolleys, hose reels etc.

Aviation Delivery hose assemblies

Cat No	Description	
062508	3m x 25mm with mxm Spannloc ends	
062509	6m x 25mm " "	
062510	10m x 25mm " "	
062511	15m x 25mm	
062512	20m x 25mm	
062520	25m x 25mm	
062513	30m x 25mm	
062514	10m x 32mm	
062515	15m x 32mm	
062516	20m x 32mm	
062517	30m x 32mm	

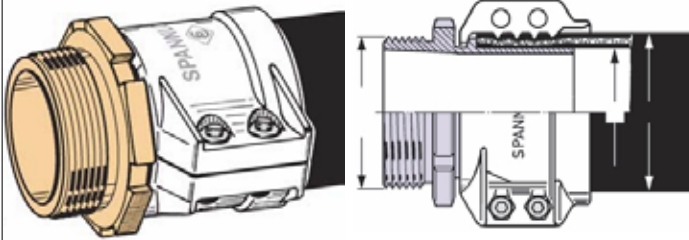
Other sizes & lengths made to order. Male or female ends can be specified



Fittings & adaptors



Huge range of fittings and accessories available to adapt existing hose assemblies to connect to pump systems or tanks - along with special fittings to allow fuel sampling, dewatering and testing.



Aviation Suction hose assemblies

Suction hose assemblies are custom made - available in various hose types fitted with whatever end fittings required. These include male or female threaded in BSP or NPT, Kamloks, drybreak couplings of whatever make & size required as well as custom fittings. All assemblies are hydrostatically tested and tagged.



Please call or email for quote on any aviation hose requirements. We also do pressure and static continuity testing if required.

We can supply hose assemblies and equipment for hydrant pit applications - both adaptors and couplings.

Australian Fuelling Systems & Equipment

PO Box 7162 NEMSC 2348 7-11 Armstrong Street Tamworth 2340

Ph: +61 2 6760 7816 Fax: +61 2 6760 7826

www.fuelequipment.com

**Australian
FUELLING
Systems & Equipment**

Portable Fill-Rite DC Aviation Fuel Pump

Fill-Rite 12 and 24v DC pumps fitted for use with aviation fuels. A range of optional suction and delivery hoses, nozzle and static cable completes the system. Pumps are modified to ensure there is no "red metals" (brass, bronze, gun metal) in the flow path. Pump has AusEx approval for use with Class 3 Flammable Liquids.



Features

- Fill-Rite 12 or 24v DC pump
- Self-priming positive displacement
- Integral bypass valve
- With on/off switch
- AusEx Approved for use with Class 3 Flammable Liquids
- Velcon VF31E filter housing
- Velcon ACO21001P element
- Stainless ball valve for sample/draining
- Kamlok suction & delivery fittings with chained dust-caps
- Stainless fittings
- Heavy duty galvanised pump frame
- Static cable & clip
- No "red" metals in flow path
- Convenient Kamlok connections - 25mm In/Out

Flow Rate

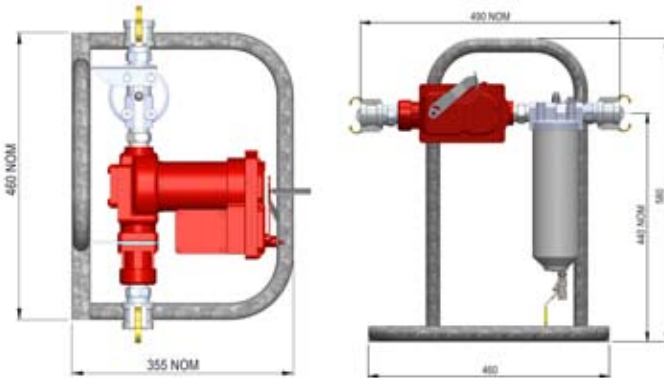
The base pump has a delivery rate of 76 lpm - the addition of accessories will reduce this flow rate. A typical setup of Velcon filter, 6m x 25mm hose, Elaflex VF25 nozzle and digital flow meter will deliver approximately 50 lpm. Obviously, longer delivery hose and/or hose reel will reduce this flow.

Electrical

Please note that we do not supply these pumps with electrical wiring - it is the owners responsibility to ensure electrical connection is made in accordance with AS3000 for Class 1 Hazardous Zones by a suitably qualified person.

We can also supply solar power systems for these pumps - complete with pedestal, battery, isolation switch and cabling if required.

Dimensions



Options

To allow this pumpset to fit your requirements, a wide range of options are available to suit:

- 1) Suction hose assemblies
- 2) Drum or tank spears
- 3) Delivery hose assemblies
- 4) Nozzle
- 5) Flowmeter

Please go to

www.fuelequipment.com

and click the "customise" button on this product to configure the system to suit your application

12v DC Cat# 030480

24v DC Cat# 030481

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IBC's - for Transport & Storage of AvGas, JET-A1, ULP

Australian Fuelling Systems now supply a range of UN Approved IBC's that can be used to legally transport Class 3 Flammable Liquids such as AvGas, JET-A1, ULP etc. Made in USA, these all stainless IBC's have been modified by us to allow safe filling and suction of product. Please note that no pumping equipment can be connected during transport.

Fill tube with Kamlok & chained lockable cap

Pressure & vacuum vent

Suction tube with Kamlok & chained lockable cap



Fitted with sampling/drain valve product specific HazChem sign, fill & dip tubes Operations Manual

Made in USA

Forkliftable

Product specific HazChem sign

Australian Fuelling Systems can supply a wide range of dispensing equipment to fit to these IBC's or other aviation storage tanks. These range from manual, DC in 12v or 24v, 240v ac and 415v 3 phase mains powered units as well as diesel engine-powered systems.

Systems can optionally include filtration, flowmeters, single point and over wing nozzles, hose reels, fuel quality testing equipment, safety equipment and suction and delivery hoses to match required delivery rates

AvGas	JET-A1	IBC Details					
Cat#	Cat#	CAP	SFL	L	W	H	Mass
1230101	1230102	1000	1090	1219	1066	1132	193
1230104	1230105	2000	2001	1219	1066	1885	278
1230107	1230108	3000	2885	1372	1372	1905	459

Complete IBC and pump systems available to buy or rent. We also offer a range of Dangerous Goods Approved trailers, static tanks and dispenser systems

fuelequipment.com

IBC & Pump packages - Rent or Buy

Available to buy or to rent, these systems can provide complete refuelling facilities. Available in 1000, 2000 and 3000 litre capacities. Dispensing systems can be manual, DC electric or diesel engine-powered with a wide range of options to suit most applications.



Delivery Hoses

Cat No	ID	Lgth	Fittings
062508	25mm	3m	25mm(m) x Kamlok(f)
062509	25mm	6m	25mm(m) x Kamlok(f)
062510	25mm	10m	25mm(m) x Kamlok(f)
062511	25mm	15m	25mm(m) x Kamlok(f)
052512	25mm	20m	25mm(m) x Kamlok(f)

Nozzle

041411			Elaflex ZVF25
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Flow Meter

053309			Piusi K24EX1
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IBC with 12v or 24v DC pump system as shown

Includes pump/filter portable pump with Kamlok male 25mm connections and 3.5m x 25mm hose assembly with 25mm female kamlok to connect to pump and 50mm female Kamlok to fit to IBC suction pipe.

Static wire with clip

You will then need to specify:

- Delivery hose length (see table)
- Nozzle
- Flowmeter



Elaflex ZVF25 Nozzle



Piusi K24EX meter

For Hire

Australian Fuelling Systems & Equipment

7-11 Armstrong Street Tamworth 2340

Freecall: 1800 025 869

Ph: +61 2 6760 7816 Fax: +61 2 6760 7826

email: sales@fuelequipment.com

www.fuelequipment.com