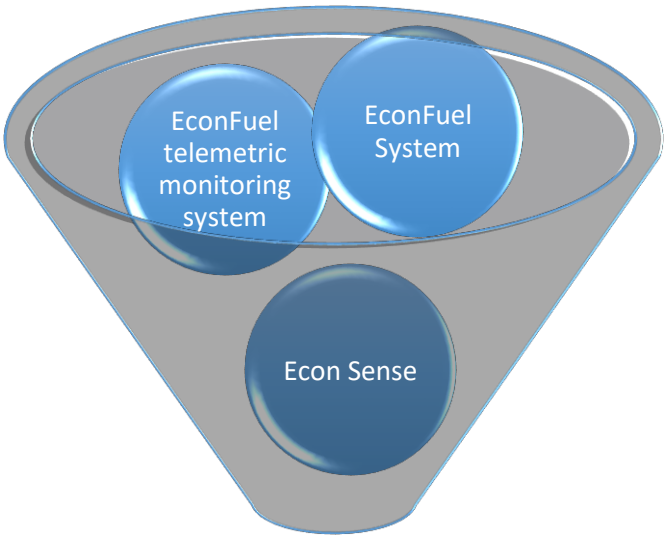
EconFuel Management System



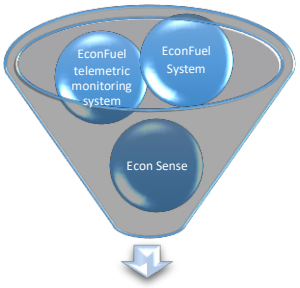
Complete Fuel Management Solution

Econfuel management system is an enterprise level fuel management system that provides on-site hydrocarbon control and monitoring. By supplying robust field equipment with an innovative web/local-based application, backed by an enterprise database storage. Econfuel is a fuel management system that is flexible, handles remote and harsh mining environments, and provides all levels of users with the site-wide hydrocarbon data they need.

The system utilizes field measurement and control hardware to capture transaction and storage data, which is pushed to the EconFuel database. Fuel and lubes are only dispensed to authorized equipment items that are identified by a RFID tag. An additional layer of accountability can be added by re-querying user authorization at the dispensing or delivery point, which is reported as part of the transaction record.

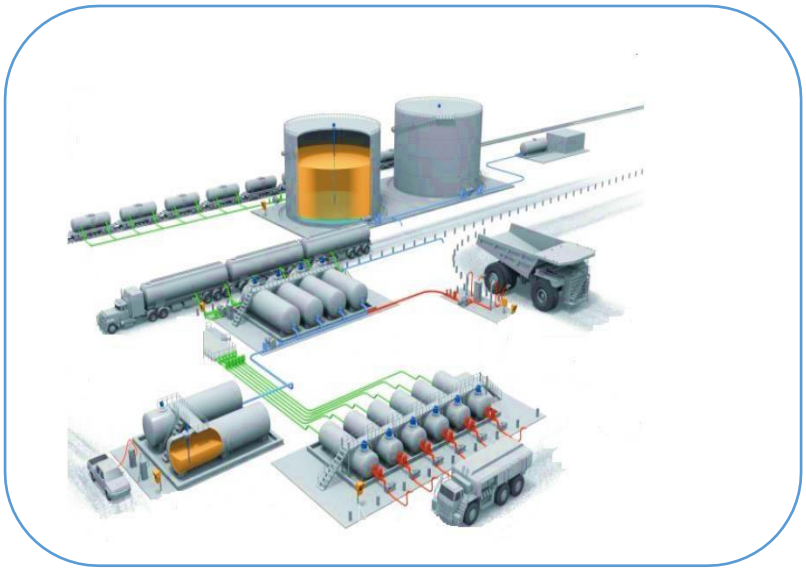
Users can monitor their storage levels, transactions records, alarms and pre-defined template reports (ad hoc reports available). Data can be exported to third party systems. Limited access can be granted to fuel vendors to assist in inventory management.

EconFuel has the ability to monitor your vehicle usage using GPS tracking which will help prevent theft and control your drivers' movements giving you the ability to fully control your operation from anywhere!



3 Products - 1 Solution

1. EconFuel System



Manage fluid metering, transfers, dispensing

The Econfuel Management and Control unit is built to withstand the harsh conditions encountered on sites and is the central hub that allows for fluid metering, transfer and dispensing. Featuring a touch screen and solid-state construction. Econfuel is the in-field access point for authorizing users and equipment, reviewing tank levels and recording transaction data.

Authorize and record transaction data

The Econfuel panel connects to the Econfuel master to authorize, record and display transaction data. It is capable of measuring both non-temperature compensated volumes and temperature compensated volumes by interfacing with multi-channel flow meters and temperature sensors while performing pulse error and meter direction detection.

Track hydrocarbon consumption

By monitoring how much fuel and lube your equipment uses you can pinpoint exactly where your budget is being spent. Econfuel allows you to accurately determine burn rates, calculate running costs and make decisions that will contribute to cost savings.

2. EconFuel Telemetric monitoring system (TMS)

Bulk storage tank data

Econfuel telemetric monitoring system (TMS) is the interface between the site's hydrocarbon storage tanks and Econfuel data base. Compatible with a most tank gauge instruments, Econfuel-TMS both captures data on behalf of Econfuel and offers local tank level displays.

Monitor deliveries, transfers, storage and dispensing

AFRIGLE's user-friendly Econfuel software monitors all hydrocarbon deliveries, transfers, storage and dispensing. All transaction data is pushed directly to the server, meaning there is no need to manually monitor each site. Further, multiple sites can be monitored from within the system. Econfuel may be accessed online from anywhere, on any device, 24/7; there is no need to download software to your PC.

Remote access

Whether you are on-site or sitting in corporate headquarters, Econfuel keeps you in the loop. Automated tank gauging provides up to the minute inventory levels and facilitates comprehensive stock management. The inherent flexibility of Econfuel allows Afrigle to design the system around your existing instrumentation, thereby delivering solutions that are both tailored to your requirements and cost effective.

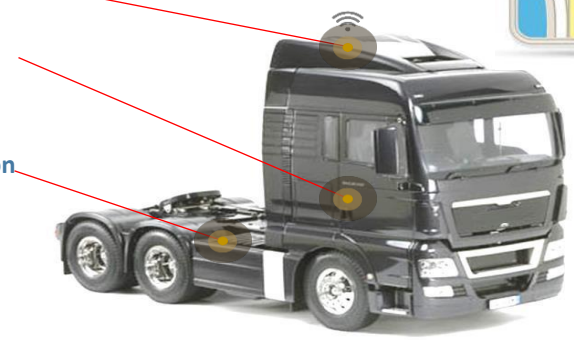
3. EconFuel Sense

GPS / GSM Antenna

On Board Lock Monitoring Unit

Tank-level-sensor (econ fuel sense)

RFID-Reader with Driver identification



***Hydrocarbon security* Fuel-Sense**

Econfuel inherent security system Fuel-Sense ensures maximum product security. It comprises of a

- Fully automated alert in the event of product theft or loss
- Gapless RFID filler tag and dispensing nozzle reader (System will not function if connection is not secure
- GPS Vehicle Tracking enabling you to track your vehicles every movement
- Suitable solutions available for all commercially, construction and heavy equipment
- Authorised refuelling – no unauthorised refuelling

Other Products Available

Afrigle supplies a full range of products for Mobile & Dedicated fluid management systems , grease equipment, hose reels, meters, nozzles, pumps, Bulk storage tanks as well as filtration and condition monitoring services.

Diesel Pumps

RON-50 230 VAC

IRON-50 230 VAC Self-suction with blades 0.25 kW · 50 l/min

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Suction: 2.7 m · Delivery: 30 m
- Priming pipe suction: 5 m
- Free flow: 50 l/min
- Consumption: 1.2-2 A
- Motor: 0.25 kW 230 VAC self-ventilated 50/60 Hz single-phase with thermal protector
- S1 Continuous duty
- IP-55 Protection
- 3,000 rpm
- Connection through F1" (BSP) threads and flanges
- It has built in a cleaning steel filter of 350 µm (micron).
- ON/OFF luminous switch with IP-55 protection
- 3 m electric cable with homologated plug
- Anti-rust treatment

IRON-50 12 or 24 VDC

IRON-50 12 or 24 VDC Blade self-suction · 50 l/min

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Suction: 2.7 m · Delivery: 20 m
- Priming pipe suction: 5 m
- Free flow: 50 l/min
- Consumption: 18-24 A (12 VDC) and 9-17 A (24 VDC)
- Motor: 0.30 kW (12 and 24 VDC) self-ventilated · dust protected
- S2 30´ duty
- 3,000 rpm
- Bypass pressure: 1.2 bar
- Connection through F1" (BSP) threads and flanges
- It has built in a cleaning steel filter of 350 µm (micron).
- ON/OFF luminous switch with IP-55 protection
- 2 m cable with clamps
- Anti-rust treatment

IRON-75 230 VAC

IRON-75 230 VAC 75 l/min

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Suction: 2.7 m · Delivery: 30 m
- Priming pipe suction: 5 m
- Free flow: 75 l/min
- Consumption: 1.9-4.5 A
- Motor: 0.5 kW 230 VAC self-ventilated 50/60 Hz single-phase with thermal protector
- S1 Continuous duty
- IP-55 Protection
- 3,000 rpm
- Connection through F1" (BSP) threads and flanges
- It has built in a cleaning steel filter of 350 µm (micron).
- ON/OFF luminous switch with IP-55 protection
- 3 m electric cable with homologated plug
- Anti-rust treatment

AG-90 12 VDC

AG-90 12 or 24 VDC Self-suction with blades 0,37 kW · 80 l/min

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Suction: 2.7 m · Delivery: 20 m
- Priming pipe suction: 5 m
- Free flow: 70-80 l/min
- Consumption: 35-53 A (12 VDC) and 24-32 A (24 VDC)
- Motor: 0.37 kW (12 and 24 VDC) self-ventilated, dust protected
- 1,500 rpm
- Continuous duty
- Tropicalized
- IP-55 Protection
- Connection through F1" (BSP) threads and flanges
- 3 m cable with clamps
- Anti-rust treatment

AG-100 230 VAC

AG-100 230 VAC · 100 l/min

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Suction: 2.7 m · Delivery: 30 m
- Priming pipe suction: 5 m
- Free flow: 100 l/min
- Consumption: 4-6 A
- Motor: 1 kW 230 VAC 50/60 Hz single-phase self-ventilated
- 1,500 rpm
- With thermal protector
- S1 Continuous duty
- IP-55 Protection
- Connection through F1" (BSP) threads and flanges
- ON/OFF luminous switch with IP-55 protection
- 3 m electric cable with homologated plug
- Anti-rust treatment

BAG-800 EExd

BAG-800 EExd · 0,90 or 1 kW · 150 l/min

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Free flow: 100-150 l/min
- Consumption: 4,5-6 A (230 VAC) 1,8-2,7A (400 VAC)
- Motor:
- 1 kW 230/400 VAC 50 Hz 3ph
- 0,90 kW 230 VAC 50 Hz single-phase
- Explosion proof (ATEX)
- 1400 rpm
- With thermal protector
- S1 continuous duty
- Motor zone classification: II 2G EExd IIB T4
- Motor Certificate: TÜV04 ATEX 2488X
- Operation temperature: 0 ºC - +50 ºC
- Inlet/outlet connection: 1 1/2" BSP
- Bypass pressure: 3-3,5 bar

ATEX Pumps

IRON-50 Ex 230 VAC

IRON-50 Ex 230 VAC · 50 l/min

- Self-suction - self-priming, explosion proof, eccentric with self-adjusting blades
- With recirculation bypass
- Suction: 2.7 m
- Priming pipe suction: 5 m
- Free flow: 50 l/min
- Consumption: 1-1.8 A
- Motor: 0.18 kW 230 VAC 50 Hz single-phase EExd
- With thermal protector
- 2,850 rpm
- S2 30´ operation
- IP-55 protection
- Operation temperature: -10 ºC · +40 ºC
- Motor zone classification: II 2 G Ex dc IIB T4
- Certificate: 94/9/CE · LOM 15ATEX0124
- Thread connection: F1" (BSP) and flange
- ON/OFF switch
- Anti-rust treatment

IRON-50 Ex 12 or 24 VDC

IRON-50 Ex 12 VDC · 50 l/min

- Self-suction - self-priming, explosion proof, eccentric with self-adjusting blades
- With recirculation bypass
- Suction: 2.7 m
- Priming pie suction: 5 m
- Free flow: 50 l/min
- Consumption: 20-27 A (12 VDC) · 10-14 A (24 VDC)
- Motor: 0.18 kW 12 or 24 VDC EExd
- With thermal protector
- 3,000 rpm
- S2 30´ operation
- IP-55 protection
- Operation temperature: -10 ºC · +40 ºC
- Motor zone classification: II 2 G Exdc IIB T4
- Certificate: 94/9/CE · LOM 15ATEX0124
- Thread connection: F1" (BSP) and flange
- ON/OFF switch
- Anti-rust treatment

AG-800 230 VAC

AG-800 230 VAC 70-80 l/min

- Self-suction - self-priming, explosion proof, eccentric with self-adjusting blades
- With recirculation bypass
- Suction: 2.7 m
- Priming pipe suction: 5 m
- Free flow: 70-80 l/min
- Consumption: 2.3-3.5 A
- Motor: 0.37 kW 230 VAC 50 Hz single-phase EExd
- 1,430 rpm
- S2 30´ operation
- IP-55 protection
- Operation temperature: -10 ºC · +40 ºC
- Motor zone classification: II 2 G Ex dc IIBT4
- Certificate: 94/9/CE · LOM 15ATEX0124
- With thermal protector
- Connection: through F1" (BSP) threads and flanges
- ON/OFF switch
- Anti-rust treatment

AG-900 12 VDC

AG-900 12 VDC 70-80 l/min

- Self-suction - self-priming, explosion proof, eccentric with self-adjusting blades
- With recirculation bypass
- Suction: 2.7 m
- Priming pipe suction: 5 m
- Free flow: 70-80 l/min
- Consumption: 42-50 A
- Motor: 0.37 kW 12 VDC EExd
- 1,650 rpm
- S2 20´ operation
- IP-55 protection
- Operation temperature: -10 ºC · +40 ºC
- Motor zone classification: II 2 G Ex dc IIB T4
- Certificado: 94/9/CE · LOM 15ATEX0124
- With thermal protector
- Connection: through F1" (BSP) threads and flanges
- ON/OFF switch
- Anti-rust treatment

BAG-800 EExd

BAG-800 230/400 VAC · TRIPHASE · 100-150 l/min

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Free flow: 100-150 l/min
- Consumption: 4,5-6 A (230 VAC) 1,8-2,7A (400 VAC)
- Motor:
- 1 kW 230/400 VAC 50 Hz 3ph
- 0,90 kW 230 VAC 50 Hz single-phase
- Explosion proof (ATEX)
- 1400 rpm
- With thermal protector
- S1 continuous duty
- Motor zone classification: II 2G EExd IIB T4
- Motor Certificate: TÜV04 ATEX 2488X
- Operation temperature: 0 ºC - +50 ºC
- Inlet/outlet connection: 1 1/2" BSP
- Bypass pressure: 3-3,5 bar

BDP 230-660 VAC

BDP 230-660 VAC EExd · 2,2-7,5 kW · 200-1000 l/min

PUMP:

- Flow: 200 l/min
- Operation pressure: 3.5 bar
- 740 rpm
- Connection through weldable flange of 1 1/2"
- Recommended diameters: •suction-delivery connection: Ø2"
- Moto-pump group performance: horizontal
- Bypass built-in

MOTOR:

- Voltage: 230-400 VAC triphasic
- Frequency: 50 Hz
- Powe: 2.2 kW
- IP-55 protection
- Condensable protection: encapsulated
- ATEX EExd IIBT4 Certificate
- Turn speed: 3,000 rpm
- Insulation: F Class
- Reducer/motor coupling: flange
- Noise level: 80 dB(A)

REDUCER:

- Type: helical gears
- Inlet: 3,000 rpm · Outlet: 740 rpm
- Ratio: 3.9

Other Pumps

BT-87 Self-suction drill pump

BT-87 · SELF-SUCTION DRILL PUMP

- Eccentric, self-suction pump with self-adjusting blades
- Connection to hose of Ø21 mm
- Pump body with injected brass inner
- Stainless steel shaft and pin
- Plastic roller and blades
- The pump output varies according to the drill and the hose used.
- It is advisable to use a drill with minimum 650 W and 2,000 rpm with the hose with a maximum inner diameter of 21 mm.
- Self-suction height: 1.5 m (with a drill of 650 W · 2,500 rpm)
- Flow (approx.): 20 l/min (with a drill of 650 W · 2,500 rpm)
- High resistance dry operation

CG-150 230 VAC

CG-150 230 VAC Centrifugal · 1,1 kW · 100-500 l/min

- Centrifugal pump suitable for the fuel transfer
- Flow according to manometric height: from 100 to 500 l/min
- Maximum height: 25 m.c.a.
- Suction with check valve: 6 m
- Consumption: 5-9 A
- Motor: 1,1 kW 230-240 VAC self-ventilated 50 Hz single-phase
- 2.800 rpm
- S1 continuous duty
- Thermal protector
- Connection through F2" (BSP)

AF DIAPHRAGM PUMPS

AF DIAPHRAGM PUMPS 12 or 24 VDC · 230 VAC

- Continuous use for water transfer at pressure
- Self-suction: 2 m
- Operation in dirt
- Automatic demand-pressure switch
- Consumption: according to pump model
- Connection through F3/8" (NPT) thread

Meters

MG-80A · MECHANICAL

MG-80A · Mechanical aluminium meter

- Aluminium body
- Made of aluminium and high quality plastic materials. Its measuring chamber is fireproof of oscillant disc and it allows to transfer any type of hydrocarbon liquids (please, consult other liquids).
- Flow: 10-90 l/min
- Accuracy: ±1 %
- Partial indicator of 3 digits and totalizer of 6 digits
- Maximum operation pressure: 5 bar
- Resistance pressure: 15 bar
- Maximum temperature: 60 ºC
- Minimum temperature: -10 ºC
- Polyamide + Fibreglass housing
- Inlet/outlet Connections: 1" GAS (BSP)
- Inlet connection through threads or flanges
- For private use, not suitable for fiscal operations

MG-80 · MECHANICAL

MG-80 · Mechanical meter

- Fireproof measuring chamber with oscillant disc
- Flow: 10-90 l/min
- Accuracy: ±1 %
- Partial indicator of 3 digits and totalizer of 6 digits
- Maximum operation pressure: 3,5 bar
- Maximum temperature: 60 ºC
- Polyamide + Fibreglass housing
- Connection 1" GAS (BSP) with 3 inlets and 2 outlets
- It is supplied with 2 additional Male/Female 1" GAS (BSP) adapters (other threads under order). The 1" GAS (BSP) red adapter has built-in the filter-sieve of 352 µm (micron).
- It is suitable for hydrocarbon liquid (please, consult other liquids).
- For private use, not suitable for fiscal operations

MGI-80 · MECHANICAL

MGI-80 · Mechanical meter with pulser

- This meter has the same features as the MG-80 mechanical meter with a pulser in its inner of 2 communication channels that allow the connection to an own consumption controller.
- It is equipped with lateral packing gland and 90 cm of connection cable.
- Pulses per litre: 10 pulses per channel

MGE-40 · ELECTRONIC

MGE-40 · Electronic gear meter

- Flow (approx.): from 2 to 40 l/min (lubricant)
- from 2 to 50 l/min (diesel)
- 5-digit totalizer
- It stores the litres of the last service.
- Maximum pressure: 50 bar
- Min/max. temperature: -10 ºC / +50ºC
- Accuracy: ±0.5 %
- Inlet/outlet connection thread: F1/2" GAS (BSP)
- It is suitable for the lubricant measuring up to SAE-140 density
- Feeding by button battery of long duration
- Low battery display
- It has calibration parameters and stored litre totalizer in a PERMANENT MEMORY

MGE-110 · ELECTRONIC

MGE-110 · Aluminium Electronic Meter with oval gears

- Body made of aluminium
- Measurement through oval gear of high accuracy
- Digital Display of liquid crystal •3 integers and 2 decimals: "999.99"
- 4 integers and 1 decimal: "9999.9"
- 5 integers: "99999"
- Flow (approx.): •5-110 l/min (diesel)
- 5-80 l/min (lubricant)
- Fluid density: 2-2000 cSt
- Accuracy: ±0.5%
- Maximum pressure: 55 bar
- Max. temperature: 50 ºC
- Min. temperature: -10 ºC
- Connection through F1" thread or flange
- Button battery of long duration (approx. 4 years, according to its application)
- Low battery display
- Calibration parameters and litre totalizer saved in PERMANENT memory

MGE-250 · ELECTRONIC

MGE-250 1'' · Electronic gear meter

- Flow (approx.):
- 10-250 l/min (diesel)
- 10-150 l/min (lubricant)
- 5-digit totalizer
- It stores the litres of the last service.
- Maximum pressure: 45 bar
- Min./Max. temperature: -10 ºC / +50ºC
- Accuracy: ±0.5%
- Inlet/outlet connection connection: F1" or 1 1/2" (flange) (according to the model)
- It is suitable for the lubricant measuring up to SAE-140 density.
- Feeding by button battery of long duration
- Low battery display
- It has calibration parameters and stored litre totalizer on a PERMANENT MEMORY

MGE-400 · ELECTRONIC

MGE-400 · Electronic gear meter

- Flow (approx.): •15-400 l/min (gasoil)
- 15-300 l/min (lubricant)
- 5-digit display
- It stores the litres of the last service
- Maximum pressure: 45 bar
- Min./Max. temperature: -10 / +50ºC
- Accuracy: ±0.5 %
- Inlet/outlet connection thread: Flange 2" BSP
- Feeding by button battery of long duration
- Low battery display
- It has calibration parameters and stored litre totalizer on a PERMANENT MEMORY

MGE/I-110 · METER + PULSE METER

MGE/I-110 · Meter + pulse meter

- Flow: 5-110 l/min
- Accuracy: ±0.5%
- Connection: F1"
- Meter and pulse meter in the same equipment.
- Body of the MGE-110 meter + MGI-110 pulse meter in its back
- The frontal has built-in the MGE display with the "TOTAL" and "RESET" keys.
- The back has built-in the sensors of the two-channel pulse meter, giving 41 pulses per litre and channel

MGI-40 · PULSE METER

MGI-40 · Pulse meter

- Flow: 2-40 l/min
- Voltage: 28 VAC/VDC
- Maximum current: 100 mA
- Accuracy: ±0.5 %
- Maximum pressure: 50 bar
- Min./max. temperature: -10 ºC / +50 ºC
- Two channels: 78 pulses per litre and channel
- Connection: F1/2"
- Housing: Aluminium
- Cover: plastic

MGI-110 · PULSE METER

MGI-110 · Pulse meter · 180º Reeds

- Max. voltage: 100 VDC
- Max. power: 8 W
- Max. intensity: 100 mA
- Viscosity: 2-2000 cSt
- Accuracy: ±0.5 %
- Max. pressure: 55 bar
- Max. temperature: 50 ºC
- Min. temperature: -10 ºC
- Two channels: 41 pulses per litre and channel
- Connection through thread or flange: F1" BSP

MGI-250 · PULSE METER

MGI-250 · Pulse meter

- Flow (approx.):
- 10-250 l/min (diesel)
- 10-150 l/min (lubricant
- Voltage: 100 VDC
- Max. power: 8 W
- Maximum current: 100 mA
- Accuracy: ±0.5%
- Maximum pressure: 45 bar
- Min/max. temperature: -10ºC /+50ºC
- Two channels: 11 pulses per litre and channel
- Inlet / outlet connection: F1" or 1 1/2" (flange)
- Housing and cover: Aluminium

MGI-400 · PULSE METER

MGI-400 · Pulse meter

- Flow (approx.):
- 15-400 l/min (diesel)
- 15-300 l/min (lubricant)
- Accuracy: ±0.5 %
- Maximum pressure: 45 bar
- Min/Max. temperature: -10 / +50 ºC
- Two channels: 5.5 pulses per litre and channel
- Inlet/outlet connection thread: Flange 2" BSP

Micro filters

FG-100 5 µm (micron)

FG-100 · 5 µm (micron) · water repellent filtering paper

- Diesel & Petrol Filtration: 5 µm (micron)
- Biodiesel Filtration: 25 µm (micron)
- Water decanter: by water repellent filtering paper, with water decanting of 93 % (FG-100 & FG-100G)
- Capacity: 2 litres
- Transfer capacity: 105 l/min
- Upper micro filter housing: aluminium
- Housing: transparent
- Inlet / Outlet: F1" BSP flanges or threads
- Filtering capacity: 500.000 litres (normal conditions)
- Installation: On the pumping kit suction or delivery
- Max. working pressure: 5 bar
- Drain valve

FG-150 5 µm · 25 µm or 15 µm

FG-150 · 5 µm (micron) · water-repellent filtering paper

- Capacity: 10 litres
- Filtration: diesel and petrol: 5 µm (micron) (with water separation at 93 %)
- biodiesel: 25 µm (micron)
- petrol · water absorbent: 15 µm (micron)
- Max. flow: 160 l/min
- Filter cover: aluminium casting
- Transparent vessel: PA
- Inlet / Outlet: F1 1/2" GAS (BSP)
- Vacuum gauge: -1 +3 bar
- Manual lower drain valve to empty impurities
- Automatic degasifier
- Filtering capacity: 1 million of litres (normal conditions)
- Installation: on the pumping kit suction

FG-300/15 15 µm (micron)

FG-300/15 15 µm (micron)

- Filtration: 15 µm (micron)
- Capacity: 15 litres in the housing interior
- Flow: 300 l/min
- Micro filter cover and body: Aluminium
- Differential manometer
- Inlet / Outlet Connections: F2" BSP or flange
- Manual lower drain valve
- Superior drain valve to eliminate the inner air of the filter
- Installation: in the suction or delivery of the pumping kit
- Maximum operating pressure: 6 bar

AFP CABINET

AFP Cabinet

- Cabinet made of 1.5 mm sheet with paint with special interior and exterior treatment against the corrosion.
- Locking with key
- Its aim is to protect the FG-300 microfilter, both physically and visually.
- Size (approx.):
- Exterior: 550x580x880 mm (LxWxH)
- Interior: 460x460x875 mm (LxWxH)

FG-700 / FG-1000 3" / 4" · 15 µm (micron)

FG-700 · Water absorbent microfilter with aluminium housing · 15 µm

- Filtration: 15 µm (micron) · Optional: 50 µm (micron) non-absorbent
- Capacity: 15 litres in the housing interior
- Flow: 700 or 1,000 l/min (according to the number of FG-300 elements)
- Microfilter cover and body: Aluminium
- Differential manometer
- Inlet / Outlet Connections: 3" or 4"
- Manual lower drain valve
- Installation: in the suction or delivery of the pumping kit
- Maximum operating pressure: 6 bar
- Maximum housing pressure: 10 bar

FILKIT FG-100 + IRON-50 230 VAC · 25 / 5 µm (micron)

FILKIT · FILTERING KIT · FG-100x2 + IRON-50 230 VAC

- Support in metallic tube with handle and wheels to circulate indoors and outdoors (lighweight and easy handling)
- Support to roll up the nose and hang the nozzle
- IRON-50 230 VAC pump
- Two-step filtering: FG-100BIO of 25µm (micron) microfilter
- FG-100 of 5 µm (micron) microfilter
- Cut-off valve in the pump inlet and the filter outlet
- FUP-1 pre-filter in the pump inlet

Nozzles

PT-60 MANUAL 60 l/min · F3/4"

PT-60

- Flow: 60 l/min
- Connection: F3/4"
- Made of polyamide 6 - 15% Fiberglass
- NBR joint
- Maximum pressure: 2 kg/cm2

PSF-040 MANUAL 80 l/min · F1"

PSF-040

- Flow: 80 l/min
- F1" rotary connection
- Made of aluminium
- Maximum pressure: 3 kg/cm2
- Trigger fixation
- Curved aluminium end

PE-010 MANUAL 300 l/min · F1 1/2"

PE-010

- Flow: 300 l/min
- F1 1/2" connection
- Made of aluminium
- Maximum pressure: 3 kg/cm2
- Trigger fixation

PA-60 AUTOMATIC 60 l/min · F3/4"

Flow: 60 l/min

- F3/4" connection PA-60
- Aluminium body with plastic cover, ergonomic design, 3 position flow regulation and automatic cut
- Trigger fixation

PA-80 AUTOMATIC 80 l/min

PA-80

- Aluminium body with plastic cover, ergonomic design, 3 position flow regulation and automatic cut
- Flow: 60 l/min
- F3/4" connection
- Trigger fixation

PA-120 AUTOMATIC 120 l/min · F1"

PA-120

- Flow: 120 l/min
- F1" connection
- Trigger fixation

PA-140 AUTOMATIC 140 l/min · F1"	PA-250 AUTOMATIC 200 l/min · M1 1/2"	
		
PA-140 • Flow: 140 l/min • F1" connection • Trigger fixation	PA-250 • Flow: 200 l/min • M1 1/2" rotary connection • Trigger fixation	

Fuel hose-reels		
MANUAL 15m · Ø1"	AUTOMATIC SERIES 5 10/15m · Ø3/4"	AUTOMATIC SERIES 6 20/50m · Ø3/4"/1"/1 1/4"
		
Manual hose-reel for 15m Ø1'' hose Manual hose-reel made of painted steel sheet for the fuel transfer	Model 5.10.20 · 10m · Ø3/4'' · 45bar • Automatic hose-reel without hose (stop built-in) • Version in painted steel sheet • Output window with PVC roller • Maximum pressure: 45bar	Model 6.20.20 · 20m · Ø3/4'' · 40bar • Automatic hose-reel without hose • Version in painted steel sheet • Maximum pressure: 40bar
AUTOMATIC SERIES 9 20m · Ø3/4"	AUTOMATIC SERIES 10 20m · Ø3/4"	AUTOMATIC High flow · 10 or 15 m · Ø3/4" or 1"
		
Model 9.20.20 · 20m · Ø3/4'' · 50bar • Automatic hose-reel without hose • Version in painted steel sheet with galvanized or stainless steel parts • Variable output window • Output window with PVC rollers • Maximum pressure: 50bar	Model 10.10.20 · 20m · Ø3/4'' · 45bar • Automatic hose-reel without hose (stop built-in) • Version in painted steel sheet with galvanized or stainless steel parts • Output window with PVC rollers • Maximum pressure: 45bar	EGC-10 1'' · High flow hose-reel with 10 m Ø1'' hose • Metallic enamelling and painted steel automatic hose-reel • With and without hose • 10 or 15 m antistatic double layer hose • Rollers in the hose delivery for a correct hose auto-location • The delivery arm can be mounted in different positions • Max. hose-reel pressure: 40 bar – hose pressure: 10 bar

Accessories

F2" OVERFILL VALVE

F2" overfill valve

APPLICATION

- Valve to avoid a fuel spill because of an excessive filling of the aerial tanks.
- It is installed in the filling tank ho.e. This valve closes the liquid flow when the product level gets almost its capacity total, using a buoy and a Venturi jet system, causing some hose strokes and a flow reduction which means the supply must be cut.
- The lower valve diameter is intended for the 2" discharge pipes.
- It has included a special key for an easy installation.

OPERATION

- This valve is designed to close the fuel pass when its level is around 203 mm from the tank capacity.
- Then small bypass valve will allow emptying the hose with a flow of 19 l/min until the liquid level gets 76 mm of the tank capacity. The bypass valve completely closes the fuel pass

F4" OVERFILL VALVE

F4" overfill valve

- 2-phase closing valves to avoid the overfill of the aerial and buried tanks with capacity higher than 3,000 litres.
- They are automatically closed when the product level gets the 92 % of its capacity.
- The lower valve diameter is intended for
the 4" discharge pipes

ADJUSTABLE ANTI-SIPHON VALVES

1'' adjustable anti-siphon valve

- Anti-siphon valve with adjustable security system for tanks with different diameters, to avoid the liquid pouring by gravity in the event of breaks or leakages in the installation. It acts like a check valve that guarantees that the suction tube is not unprimed.
- Its installation is obligated on all the aerial tanks according to the "Reglamento de Instalaciones Petrolíferas" (Petroleum Installation Regulation) and "la Instrucción Técnica Complementaria MI-IP04" (MI-IP04 Technical Complementary Instruction).

BREAKAWAY VALVES

802 breakaway valve

- Body: aluminium
- Main seals: viton
- Main spring: stainless steel
- Guide and poppet: POM
- Protective sleeve: PVC
- The valve is designed to be replaced after the separation

ANGLE CHECK VALVES BSP 1" or 1 1/2"

BSP 1 1/2'' angle check valve

The angle check valve is installed in the suction tube, in the top of the buried storage tanks.

SUCTION AND DELIVERY HOSES

Ø19 mm diesel double layer hose

To put adapters in both ends

SUCTION KITS

TELESCOPIC TUBE KITS

PP M3/4" F1" telescopic tube kit with filter · height 0.98 m

ADAPTERS AND FERRULES

M3/4''x25 plastic adapter

FLANGES

M1'' short union flange kit

Special flange of plastic with PA + fibreglass to adapt the GESPASA mechanical meters to pumps and/or pipes.

EXTENSION BATTERY CABLE BOX

Extension battery cable box

- Electric direct current tester (supply system in battery) for the AG-90 (12 or 24VDC) diesel pumps or the EA-90 (12-24VDC) lubricant pumps, to avoid the drop in voltage.
- Cable section: 25mm2
- Length: 5m
- Maximum admissible intensity of the tester set: 60A
- IP-55 connection box
- Clamp size: 150x20x90mm

BASES, PLATFORMS, SUPPORTS

Metallic bases

Sheet plate bases to put the pumping kits and to fix on the wall or on any surface with a nozzle hanger with rubber protection. Finish in brilliant epoxid paint.

CABINETS

AS · Cabinets for external use

- Made of 1,5 mm sheet
- Opening under the door to pass the hose
- Key locking
- Finish in brilliant epoxid paint.

FUNNELS

Funnels

Ø240mm funnel

BUNG ADAPTERS

Bung adapters

2''xT1/2'' bung adapter

FIRE CUT-OFF VALVES

Fire cut-off valves

1 1/4" brass fire shutoff valve
1 1/2" brass fire shutoff valve
2" T brass fire shutoff valve

CHARGING HOLES

Charging holes

F2'' charging hole
F3'' charging hole
M3'' charging hole plug

ACOUSTIC OVERFILLING ALARM

Acoustic overfilling alarm

- Luminous and acoustic alarm of the maximum tank level of any liquid fluid, water, diesel, etc. It is suitable for the tank filling warning up to a predetermined level.

SPILL CONTAINERS & COVERS

SPILL CONTAINERS WITH STEEL COVER

- The spill manhole container is designed to prevent the product spill near filling connections and vapour outlet in buried storage tanks during a normal filling operation.
- It helps to prevent the soil contamination and ground water pollution.
- Easy installation. Its flexible structure allows a good adaptation in all type of terrains.
- It allows to drain the container product into the buried tank.
- Capacity: 19 litres

HYDROCARBON SEPARATORS

HYDROCARBON SEPARATORS WITH DECANTER AND COALLESCING CELL

- It is an equipment made for retaining the hydrocarbon in suspension that could be in dirt waters. It is obligatory headed by a decanter that will retain the heavy material.
- The Spanish Water Law of 1985 and the corresponding local regulations forbid the spill of lubricant, oil and hydrocarbon, new or waste, in the surface, ground waters or in sewers.
- The hydrocarbon separators with coallescing cell are particularly advisable to treat waters before their spill in sensible zones (rivers, lakes, seas, etc.) or when the local regulation ask for some results higher than it is usual. These separators comply with the prEN858 European Regulation, separators of Class I (spill < 5mg/l).

Mobile tanks

MOBIL TANK

Mobil tank 350 or 460 litres

- Metallic tanks for the road fluid transport
- Built in carbon steel and two-component epoxi paint with maximum protection against corrosion.
- GRG (ADR) tanks are approved for the carriage of petrol, diesel, kerosene, fuel for aviation turbine motor, glues, inks, mineral oil, crude oil and resine in solution in non simultaneous way.

RECTANGULAR GRG

RECTANGULAR GRG from 190 to 980 litres

- Autonomous fuel transport tanks, of capacities from 190 to 980 litres, specially suitable for the diesel transport for heavy and agricultural machinery, excavations. These tanks are also suitable to be installed in vans, "pick-up", trucks, etc.
- These are approved according to ADR regulations, for the road traffic without dangerous goods card.
- They are made of ST 44-2 carbon steel and finished with Epoxi paint, with inner "bulwark" and security valve.
- These tanks include: venting valve, FUP-1 filter and fire extinguisher.

BASIC TRAILERS

BASIC TRAILERS Up to 500 litres

- Galvanized trailers, of capacities up to 500 litres with lateral protection rail, 155 R13" big wheels and "jockey" move wheel, with and without brake (according to the model).
- It can be towed to any type of vehicle. It does not need registration. They are exempt from taxes. Without periodical service of "ITV".

FUEL TRAILER

FUEL TRAILER Up to 500 litres

Cased trailer of 2 tip-up doors through hydraulic cylinders and security lock, completely galvanized, with independent charging space for oils, greasers, tools, accessories, etc., with brake, 155 R13" big wheels and "jockey" move wheel.

FUEL BOX TRAILER

FUEL BOX TRAILER Up to 920 litres

- Cased trailer with tip-up door through hydraulic cylinders, completely galvanized, of 1.350Kg of PMA, with independent charging space for oils, greasers, tools, accessories, etc., with brake, 185 R13" big wheels and "jockey" move wheel.
- This trailer needs registration and own insurance.

TRUCKTANK GRG/ADR

TRUCKTANK GRG/ADR 200, 420, or 900 litres

- GRG mobile tanks for the legal and sure fuel transport and supply, with ADR certificate. (It includes the European ADR certification Stamp) FT420 certificate no. 413/0/575 and FT900 certificate no. 448/0/1237.
- They are light and high resistance.
- They are suitable to be transported in trucks/ vans and to refuel the building, farming, and industrial machinery.
- Material: They are made of resistant UV polythene of average density, which mantains the colour.
- They are not cracked or oxidized.

Static tanks

SINGLE-SKINNED

SINGLE-SKINNED Made of polythene · 500 / 3,000 litres

- They are suitable to store petroleum products such as diesel, mineral and vegetable oils, waste oil and also not drinking water, ...
- They are easy to install and interconnect themselves with pipes up to 5 tanks of the same type, maximum 10,000 litres.
- These tanks are manufactured through a blow moulded and polythene process of high density, being unalterable (there is no risk of an internal or external corrosion), resistant to impacts and temperature changes.
- They comply with the UNE EN-13341 Regulation

INTEGRALLY-BUNDED

INTEGRALLY-BUNDED Made of polythene · 1,100 · 1,500 · 2,000 litres

- They are suitable to store petroleum products such as diesel, mineral and vegetable oils, waste oil, and also not drinking water, ...
- Homologated integrally-bunded polyethylene tank
- Made of high density polyethylene and high molecular weight
- The tanks higher than 999 litres have built in a level indicator.
- The exterior casing makes the function of retention container of 100% capacity in the event of an inside tank leak, and it also adds a high tank security.
- They comply with the UNE EN-13341 Regulation.

SPILL TRAYS

SPILL TRAYS

- Leaktight containers for the fuel retention stored in the tank in the event of its breaking or wrong transferring or handling system operation.
- They are suitable for simple wall tanks of equal to or less than 1,000 litres.
- They are stacked with lateral handles to make easier its transport and handling.
- They are made zinc-plated steel plate of 0.8 mm thickness, with non-corrosive treatment
- The storages with capacity not higher than 1,000 litres of Class C product (diesel) do not need retention container. They must have a spill tray with capacity, at least, the 10 per 100 of the tank.» (Spanish "Real Decreto 1523/99")

CYLINDRICAL CARBON STEEL

Simple or double wall

- Simple or double wall tanks suitable for fuel, diesel, petrol, mineral and vegetable oils, waste oil, ...
- Fixation support for the transport and installation
- 500mm manhole. Hermetic seal.
- It has two handles for its handling and raising.

COMPLETE STORAGE KITS

DOUBLE WALL 3,000-15,000 litres

- Compact petrol installation for the diesel storage and (own consumption) supply to vehicles, heatings, forwarders, agricultural cooperatives, ...
- Constructed and assembled following the general criteria of the Petrol Installation Regulations and the MI-IP03 / IP04 Complementary Technical Instruction (Rule)

FUELTANK

FUELTANK from 3,500 to 9,000 litres

- This kit is designed to store and supply fuel in a secure and effective way.
- Material: Made of high quality polythene. UV and high temperature resistance.
- Maximum protection with possible leaks that could damage the environment. Unlike the sheet tanks, its appearance and properties are more lasting.
- The GESPASA supply kit is well-protected in the booth with lock. This prevents the access to non-authorized personnel and also reduces all type of problems. The kits are protected againts the inclemency of the weather.
- Transport: It is designed for an easy handling with a forklift or a crane, when it is empty.
- This kit is manufactured according to ISO 9001:2000.

FUELTANK SLIM-4000 4,000 litres

FUELTANK SLIM-4000 4,000 litres

- Resistant to corrosion and UV radiation
- The door opened to the right or the left.
- Lockable housing protects the dispensing equipment against unauthorized access.
- The tank can be easily transported by a forklift truck.
- Strong and rigid construction ensures stability of the tank.
- Due to its unique and special design the tank can be located in a restricted area.
- Raised roof enables easy access to the tank inner.

RETENTION BASINS ribbed · with extractable grids

Retention basin for 2 barrels of 200 litres

- Retention spill basins (doubles)
- They are essential to store chemical and contaminant substances.
- These retention basins offer an easy and quick protection against spillages of the chemical or oily substances.
- Environment protection against spillages or leaks of the stored substance.
- Ribbed basins for a highest resistance.
- Minimum weight for an easier transport or storage.
- Easy empty and cleaning because these are made of non-corrosive and environment resistant materials. They do not need maintenance.
- Modular design. Interconnected blocks that allow to connect different units to design a bigger storage space.

METALLIC TANKS integrally bunded · generator

INTEGRALLY-BUNDED RECTANGULAR METALLIC TANK of 1,400 litres

- Fuel tank for generators
- Made of carbon steel
- Two-component epoxy paint with anti-rust treatment
- Integrally bunded
- Manometer for leak detection

Other Afrigle Related Products

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