



PIUSI

OFF ROAD EQUIPMENT



The complete range of solutions to manage heavy duty vehicles refueling

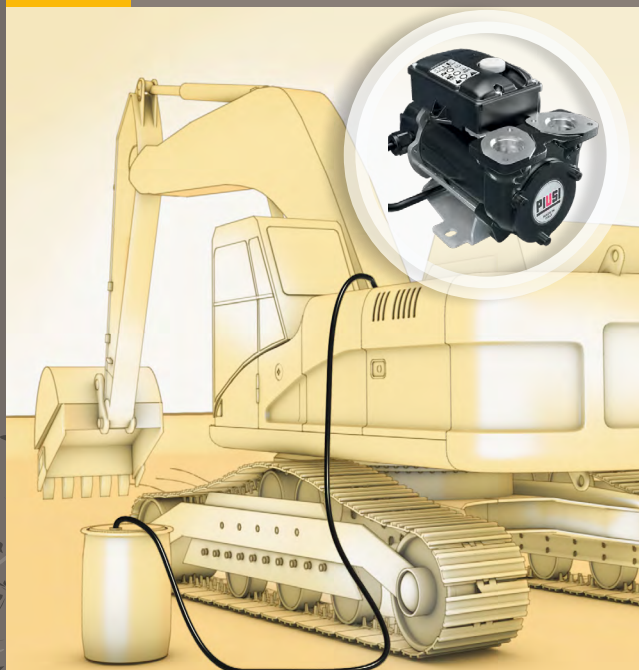
> ARE YOU READY FOR THE FUTURE? GO OFF-ROAD EASILY WITH PIUSI'S RANGE!

> TAILOR-MADE > PARTNERSHIP > FLEXIBILITY AND RELIABILITY > EFFICIENCY > COMPLIANCE

APPLICATION 01



State-of-the-art pumps to satisfy the requirements for the **on-board refueling** on heavy equipment and earthworks machineries.

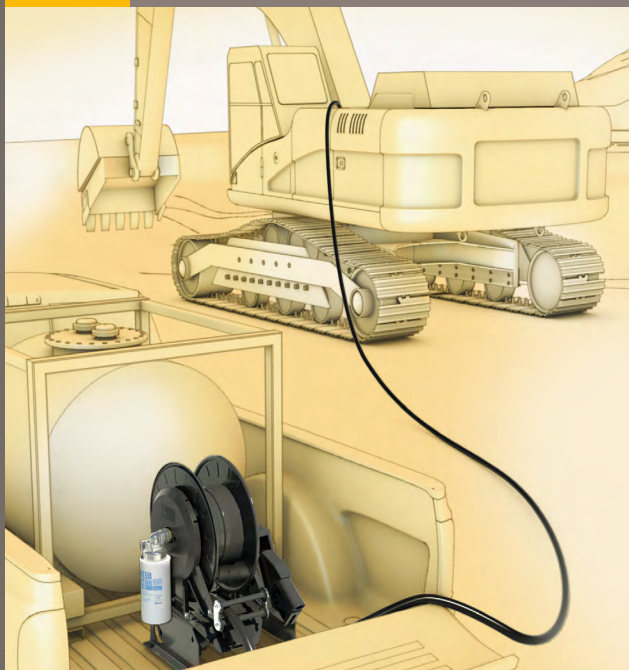


> ON-BOARD REFUELING

APPLICATION 02



Powerful and portable equipment, easy to handle, that allows refueling operations on-site in cases where reaching the refueling area is not simple.

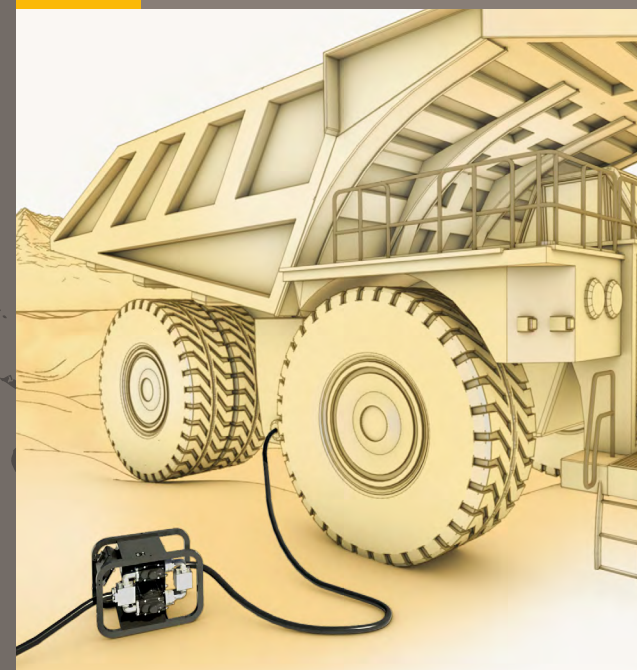


> REFUELING MOBILE

APPLICATION 03



When **high flow** is required, this equipment is suitable for operating directly on-site and on vehicles with large storage tanks.



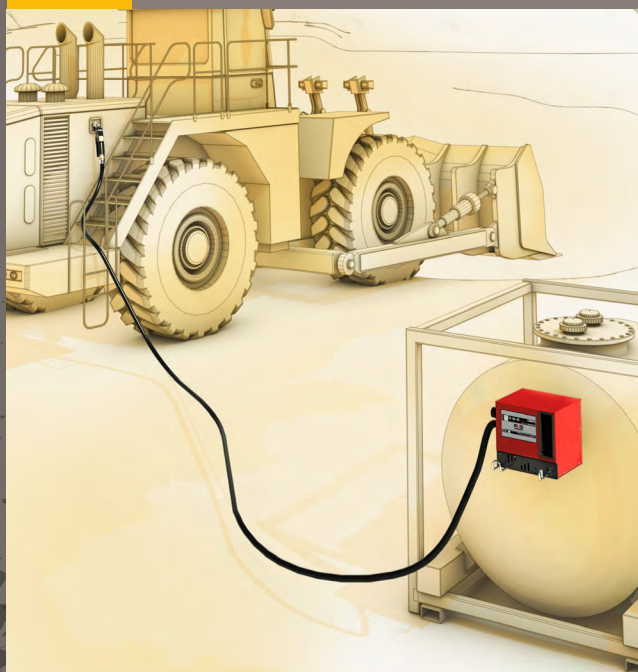
> HIGH-FLOW REFUELLING

The mobile and fixed solutions easily suit a wide variety of applications:
a new and easy way to automatically and safely manage refueling operations of earthmoving machines, heavy duty vehicles and OEM equipment.

APPLICATION 04



The complete range of fixed dispensers to set up a refueling area for any vehicle tank on the working site.

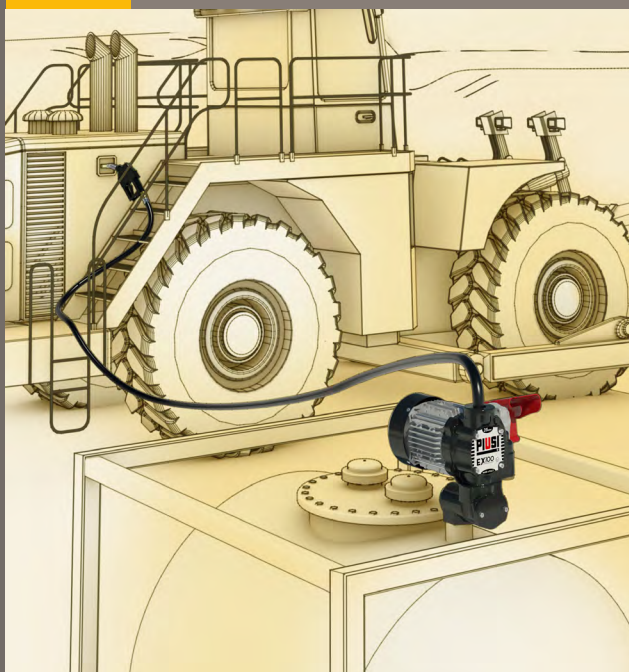


> **FIXED REFUELING**

APPLICATION 05



The complete range of EX equipment suitable for refuelling operations in potentially explosive atmospheres.

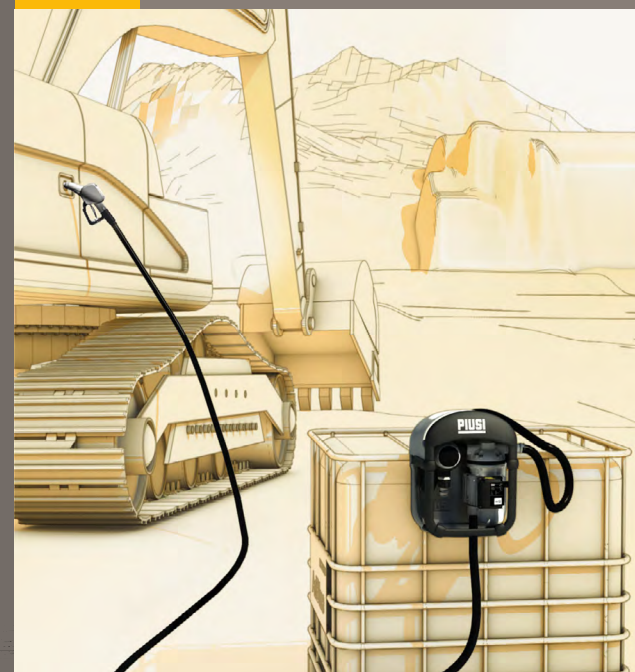


> **ATEX/UL EQUIPMENT**

APPLICATION 06



Dedicated AdBlue® equipment both for high and low consumptions according to plant requirements.



> **ADBLUE® EQUIPMENT**

> OFF-ROAD EQUIPMENT RANGE

MOBILE REFUELING

Engineered to allow all refueling operations on the worksite.

> PAGES 11 / 12



ON BOARD REFUELING

Top-technology pumps with integrated "intelligence system" for any on board application.

> PAGES 6 / 10

FIXED REFUELING

Dispenser for fixed installations on tanks or drums

> PAGES 15 / 17



EASY TO USE, TAILOR MADE AND SUITABLE FOR ALL SITUATIONS
PIUSI RANGE OF EQUIPMENT FOR OFF-ROAD APPLICATIONS IS
THE CHOICE FOR EARTHMOVING, FARMERS AND MINING CONTRACTORS.

AdBlue® EQUIPMENT

Special equipment for
AdBlue transferring for any
consumption requirements.

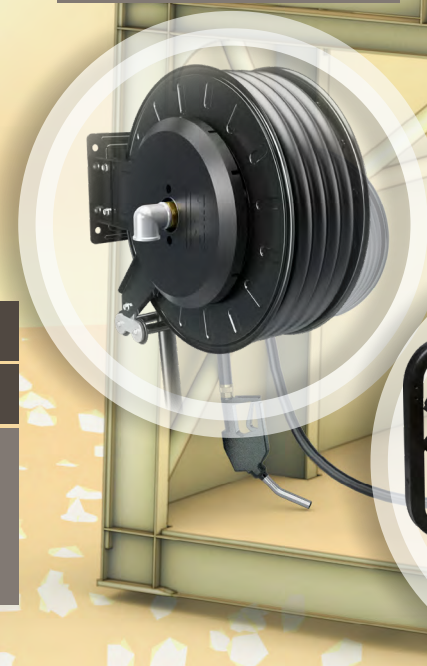
> PAGES 20 / 21



ACCESSORIES

Professional accessories to
complete the OFF-ROAD
equipment range.

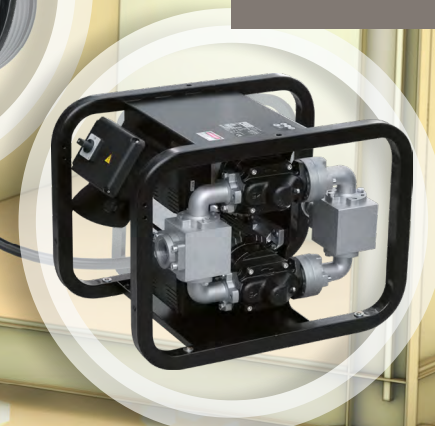
> PAGE 19



HIGH-FLOW REFUELING

The perfect solutions for
the most demanding flow
requirements..

> PAGES 13 / 14



ATEX/UL EQUIPMENT

Specific equipment for
refuelling in potentially
explosive atmospheres.

> PAGE 18



ON BOARD

REFUELING



TAILOR MADE AND CUSTOMIZED

TOP-IN-LINE SOLUTIONS

FOR ANY OEM MACHINERY

A complete range of DC pumps suitable to meet the highest demand for service and quality. Vantage is a range of intelligent pumps that can monitor their own activity adapting the flow rate and stopping automatically according to the vehicle tank.

> BP 3000

This long-lasting vane pump is equipped with a built-in bypass valve. Available in both 12V and 24V versions, it represents the core of the on board range.



FLOW RATE

Up to **50 l/min** at **0,25 bar**

- Max differential pressure 1.0 bar
- 30 minutes duty time
- Self-priming up to 3 meters depth
- Cast iron pump body
- Anti-corrosion finishing
- Sintered steel rotor and acetal resin vanes

> BP 3020

This DC pump maintains all the main structural features of the BP 3000 while being specifically engineered to be compatible with B20 Bio Fuel.



FLOW RATE

Up to **50 l/min** at **0,25 bar**

- Max differential pressure 1.0 bar
- 30 minutes duty cycle
- Self-priming up to 3 meters depth
- Resistant to dry running
- Cast iron pump body
- E-coat finishing on the whole body
- Mechanical seals
- PPS vanes
- Thermally protected motor

> VANTAGE 60

Smart fuel pump, available both in 12V and 24V versions, it can be installed on any vehicle thanks to its customized elements. Its intelligent control box guarantees a fully automatic performance in terms of self-refueling and overheating regulation.



DIESEL

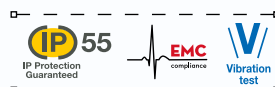
FLOW RATE

Up to 60 l/min at 0,25 bar

- Max differential pressure 1.0 bar
- Self-priming up to 3 meters depth
- Incorporated by-pass valve
- Operation status LED
- Remote control unit

> VANTAGE 100

Top-in-line vane pump with rotor specifically designed for on board refueling of heavy duty vehicles with tank capacity exceeding 400 liters. The pump can transfer ultra-low-sul-fur-diesel "ULSD" and biodiesel B20.



B20 DIESEL

DIESEL

FLOW RATE

Up to 100 l/min at 0,25 bar

- Tension 24V DC
- Cast iron pump body
- E-coating finishing on the whole body
- Mechanical seals
- PPS vanes
- Thermally protected motor
- Removable control box

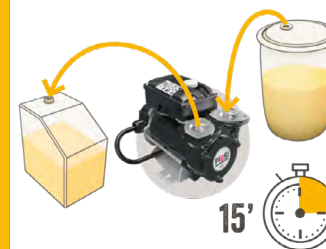
VANTAGE DC: THE INTELLIGENT PUMP

STOP

Discover the intelligent Vantage system in all different conditions

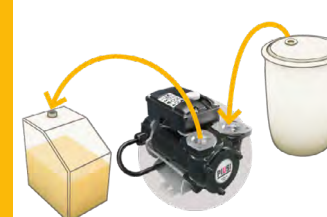
A

Switches off after 15 minutes



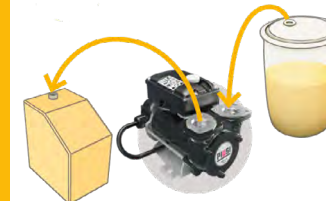
B

Dry running: detects this state and shuts down the pump



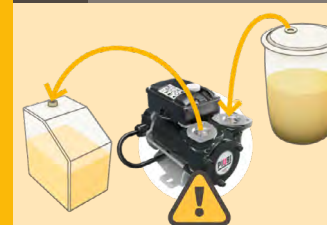
C

It stops when the tank is full



D

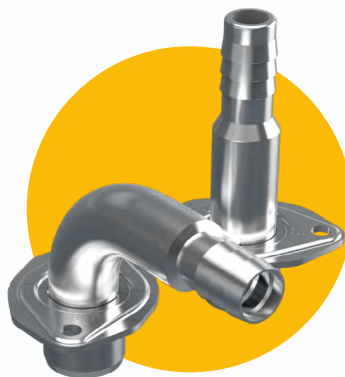
Overheating and overpressure: reduces power and allows slower refuelling



> TAILOR-MADE SOLUTIONS

Each customer has his unique requirements. Thanks to our R&D department, we can supply highly “made to measure” co-designed solutions that meet both the customer’s as well as the industry’s specific needs.

Starting with the high quality standard BP3000 and Vantage range, PIUSI can design, create and industrialize the perfect solution in terms of connections, valves, base and cables.

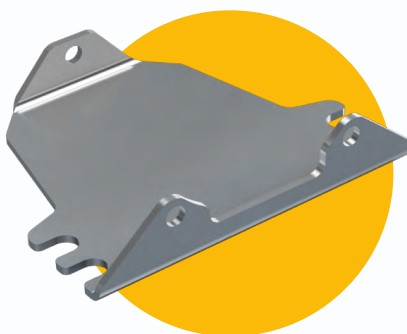


01 / CONNECTORS

Wide range of connectors for heavy-duty applications.

Features:

- Different shapes and sizes
- Sturdy construction
- Designed according to customer requirements



02 / SUPPORT BRACKET

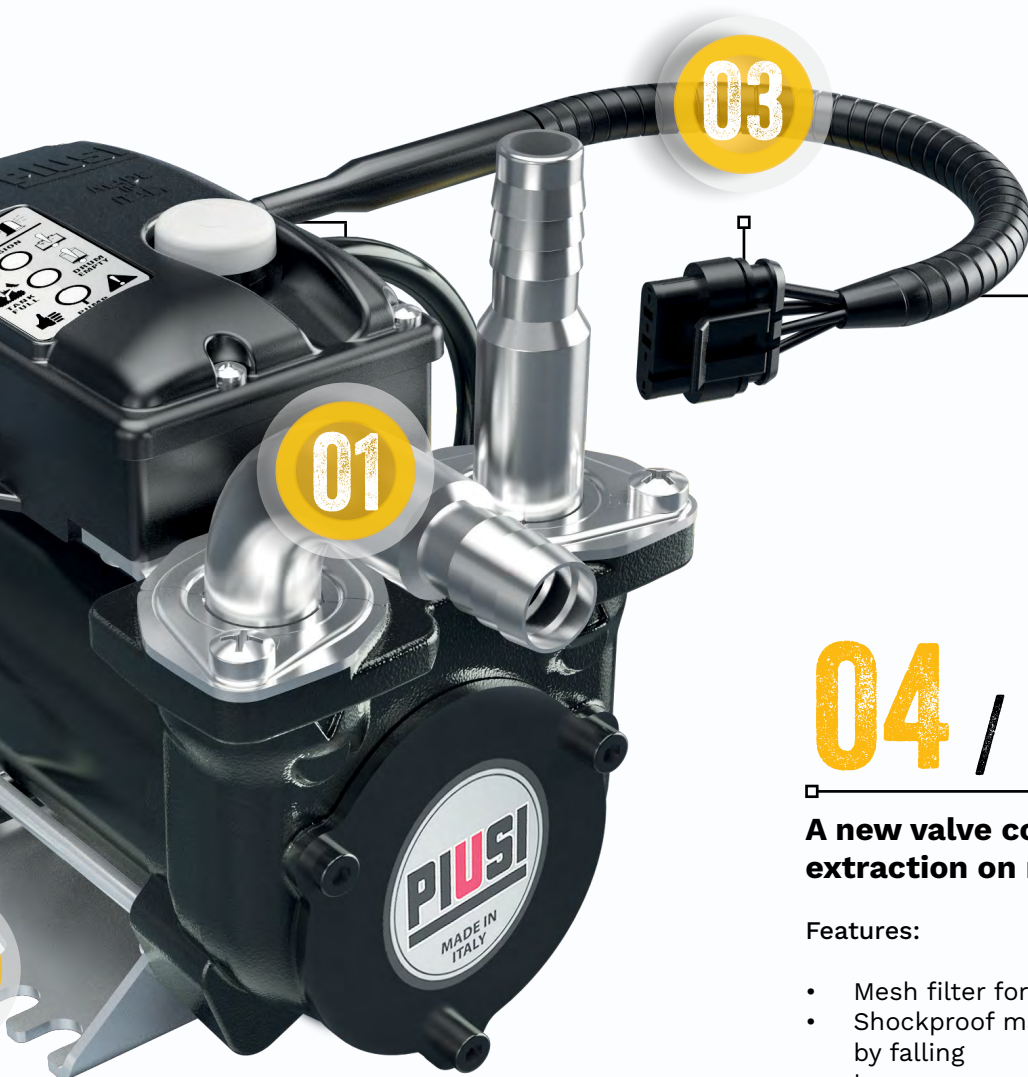
Custom designed pump support bracket to perfectly suit all vehicles

Features:

- High-resistance support
- Maximum stability and correct fixing
- Co-designed on customers' requests



02

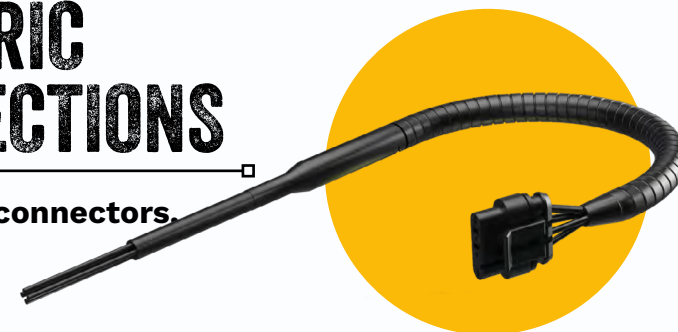


03 / ELECTRIC CONNECTIONS

Wide range of heavy duty connectors.

Features:

- Long-lasting pin
- Robust cable cover

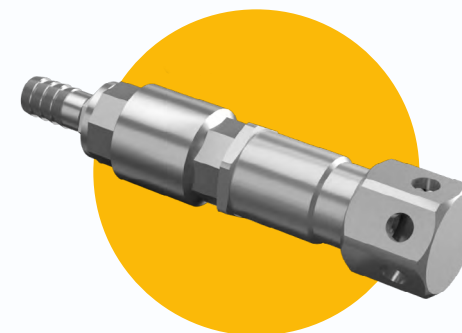


04 / FOOT VALVE

A new valve concept for hose fuel extraction on machinery.

Features:

- Mesh filter for diesel residues
- Shockproof materials to prevent damage caused by falling
- Low pressure drop



WE DON'T FEAR NO CONDITIONS

> TESTING

This range of pumps, expressly engineered to be used on the OEM machines, are 100% tested accordingly to the following inspections.

These wide range of mechanical and structural tests are carried out on all components to guarantee the maximum reliability and long-lasting equipment.

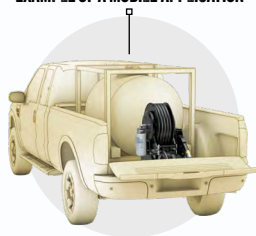
Test:	Ref:
01 > TEST HIGH TEMPERATURE	Test Ref. PIUSI Rdp 1742
02 > TEST LOW TEMPERATURE	Our test ref. PIUSI Rdp 1742
03 > TEST HIGH STORAGE TEMPERATURE	Our test ref. PIUSI Rdp 1742
04 > TEST LOW STORAGE TEMPERATURE	Our test ref. PIUSI Rdp 1742
05 > VIBRATION TEST	Our test ref. CERMET 2011_00172
06 > TEMPERATURE CYCLE HUMIDITY	Test ref. PIUSI Rdp 1742
07 > THERMAL SHOCK TEST	ref. REGGIO EMILIA INNOVATION 01 2010
08 > MECHANICAL SHOCK TEST	REF. REGGIO EMILIA INNOVATION PS010411ENDE0571
09 > WATERPROOF RESISTANCE	OUR TEST REF RES 80746
10 > WATERTIGHT RESISTOR	OUR TEST REF RES 80746
11 > VOLTAGE TEST	OUR TEST REF. PIUSI RDP 1742
12 > EMC TEST	OUR TEST REF. REGGIO EMILIA INNOVATION PS040511EMC0571
13 > DURABILITY TEST	OUR TEST REF. PIUSI RDP 1742
13 > TSALT MIST TEST	OUR REF. CERMET 2011_00255

> PITSTOP

Dispenser unit with two DC pumps, hose reel, water filter and automatic nozzle integrated in a sturdy supporting structure. Versatile and compact, this dispenser is the all-in-one solution for setting up a perfect mobile refueling unit.



EXAMPLE OF A MOBILE APPLICATION



FLOW RATE

Up to 45 l/min

- Two BP 3000 pumps 12/24V
- 30 minutes duty time
- Hose 3/4" - 14 m (1" - 10 m)
- Filter with water absorption cartridge
- Sturdy metallic structure
- Hose reel side safety guards
- Adjustable arms with with end-of-travel hose stop
- ON/OFF switch
- K24 meter (on request)

> PIUSI BOX

Portable box integrated with a self-priming transfer pump, filter, check valve and manual nozzle suitable for quick and safe refuel operations in all the situations where an easy mobile refueling is required.



EXAMPLE OF DRUM APPLICATION



FLOW RATE

Up to 45 l/min

- BP3000 pumps 12/24 V
- 30 minute duty time
- Integrated filter (PRO version)
- Rotating connection
- On/off switch
- Foot valve
- K24 meter (on request)
- Easy to repack after use

DIESEL

MOVE YOUR FUEL TRANSFER SYSTEM WHEREVER NEEDED

A complete range of dispensers that allow to bring the refueling system in every area on the worksite. Thus it is not necessary to move the OEM machinery to a dedicated area for a valuable time-saving.

MOBILE REFUELING



ANY WORKSITES AND
ENVIROMENTS ARE OK
FOR REFUELLING WITH
PIUSI'S MOBILE SOLUTIONS:
WE DON'T FEAR ANY
EXTREME CONDITION!

> BATTERY KIT

Portable diesel transfer unit with self-priming electric vane pump. Its modular design allows to have different pumps accordingly to the required flow rates and different usages. It is always supplied with integrated nozzle and a set of accessories.



FLOW RATE

Up to 80 l/min*

- 12/24V DC pumps
- 30 minutes service time
- Self-priming up to 2 metres
- Cast iron body
- Fixed-brush motor with permanent magnet stator
- terminal board with switches and fuses to protect against overload
- ON/OFF switch
- Drum kit (on request)

*Depends on pump model

> KIT AVAILABLE WITH PUMPS



Battery Kit 3000 INLINE



Battery Kit PANTHER



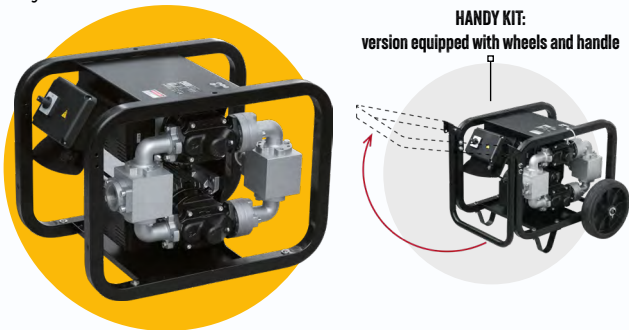
Battery Kit 3000 BIPUMP



Battery Kit OIL

> ST 200 AC

This dispenser allows high flow refueling thanks to the two integrated E120 self-priming rotary electric vane pumps. Fitted with by-pass valve and elevated reliability seal, the dispenser works even at low working temperatures and in every condition on worksites.



DIESEL

FLOW RATE

Up to 200 l/min

- AC 230V
- Continuous duty
- Sturdy steel frame
- Wheels and handle available as accessories
- Suction hose up to 10m
- Flow rate up to 170 l/min with 20 m lenght(hose kit 1" 1/2)
- Self-priming

> ST 200 DC

24 V portable dispensing unit for high flow applications. The low weight of the unit makes it easy to handle and suitable for operating on worksites.



DIESEL

FLOW RATE

Up to 185 l/min

- 20 minutes duty time
- Thermal protection
- Suction hose up to 10 m
- Flow rate up to 170 l/min with 20 m hose lenght (hose kit 1" 1/2)
- Self-priming

HIGH-FLOW REFUELING



PERFECT EQUIPMENT FOR HIGHEST REQUIREMENTS

These high performance dispensers have been expressly designed and engineered to meet the requirements of OEM machineries, earthmoving vehicles and tractors which need high flow for refueling.



STURDY TO PROVIDE MAXIMUM LOAD-CAPACITY IN EVERY SITUATION

> E140

An easy-to-install, self-priming volumetric vane pump suitable for use in diesel dispensers and stationary fuel transfer systems. Thanks to its sturdy and robust construction, it is safe for use at low temperatures.



FLOW RATE

Up to 140 l/min

- AC version
- High flow rate
- ON/OFF switch

> E300

With a flow up to 300 l/min*, this electric pump with open impeller is suitable for all situations where high flow rates are required. Therefore, it is the ideal equipment for refilling and transferring diesel from drums and tanks of all kinds.



FLOW RATE

Up to 500 l/min*

- AC version
- Max pressure 1.7 ba
- Open impeller

*Nominal flow rate without automatic nozzle

> DRUM

This is a modular diesel and oil transfer unit for private use that can be easily installed on drums thanks to a 2" quick coupling. It is available in different versions depending on the type of pump required.



OIL

DIESEL

FLOW RATE

Up to 80 l/min*

- AC/DC versions
- 4 meters delivery hose
- Self priming
- Telescopic suction tube
- Nozzle holder above the drum for easy & clean operations
- Quick drum connection
- Control of single user consumption
- Suction filter accessible for inspection

*Depending on pump model

> AVAILABLE PUMPS



PANTHER 56 AC



VISCOMAT 70/200 AC



BIPUMP DC



VISCOMAT DC

FIXED REFUELING

STATIONARY EQUIPMENT FOR YOUR REFUELLING AREA

Fixed dispensers, both on drums, tanks and stand alone, designed with a sturdy structure for different applications from the lower to the higher requirements in terms of refueling operations and flow rate.



> ST

Diesel transfer station that can be used to fill mobile tanks or interact with distribution units. Its robust design makes the dispenser suitable. Its sturdy structure makes this dispenser suitable to be used in the harshest environments. It can be integrated with a protective metal box and water separating filter.



DIESEL

FLOW RATE

Up to 90 l/min*

- AC and DC versions
- Check valve
- Filter and nozzle support
- 4 metre delivery hose (6 metres on request)

*Depending on pump model

> ST WITH METER AND FILTER

This range of dispensers is particularly indicated for all applications in which a filtration is required. The stations integrate PIUSI clear or water captor filters and are available both with mechanical meter K33 or electronic meter K24.



DIESEL

FLOW RATE

Up to 85 l/min*

- Accuracy +/- 1%
- AC version
- Check valve
- Filter and nozzle support
- 4 metre delivery hose (6 metres on request)

*Depending on pump model

> ST WITH METER

Diesel transfer station for fixed installations composed by AC or DC pump, nozzle (manual or automatic) and precision meter - both mechanical (K33) or electronic (K600/3 B) - for safe and controlled refuelling operations.



DIESEL

FLOW RATE

Up to 90 l/min*

- Accuracy +/- 1%
- AC and DC versions
- Check valve
- Filter and nozzle support
- 4 meters delivery hose (6 meters on request)
- Safety box (on request)

*Depending on pump model

> ST BOX

A diesel refueling station complete with pump, flow meter and filter, with lockable metal protection box. The unit is complete with antistatic hose for diesel fuel and automatic dispensing nozzle. The Pro version features the electronic access control box Access 85.



DIESEL

FLOW RATE

Up to 85 l/min*

- Accuracy +/- 1%
- AC version
- Check Valve
- Water Captor Filter
- 6 to 8 meters delivery hose
- Access Control

*Depending on pump model

> CUBE 56

Diesel dispenser for non-commercial use.

The sturdy structure is designed for different applications: can be fixed to walls, tanks, cisterns, drums, special pedestals. It features a self-priming vane pump fitted with bypass, installed on anti-vibration supports.



DIESEL

FLOW RATE

Up to 56 l/min

- Accuracy +/- 1%
- AC and DC versions
- Mechanical seal
- Induction motor with thermal overload protection
- Integrated nozzle holder with stop/start pump lever
- Mesh filter

> CUBE 90

Top-in-line of mechanical Cube dispensers in terms of flow rate, CUBE 90 is available in AC version only and features all the main characteristics of the CUBE range in terms of sturdy structural elements and applications.



DIESEL

FLOW RATE

Up to 90 l/min*

- Accuracy +/- 1%
- AC version
- Mechanical seal
- Induction motor with thermal overload protection
- Integrated nozzle holder with stop/start pump lever
- Mesh filter

> CUBE 70

This diesel dispenser is available both AC and DC versions and features all the main characteristics of the Cube 56 while featuring a higher flow rate. It is also available with filter.

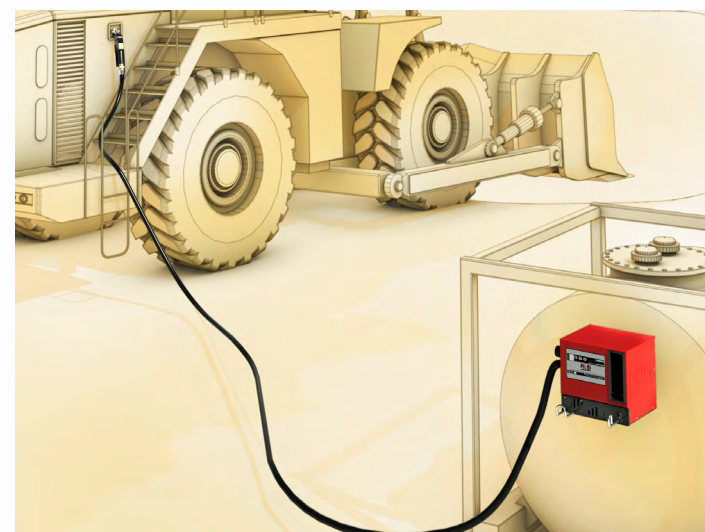


DIESEL

FLOW RATE

Up to 70 l/min

- Accuracy +/- 1%
- AC and DC versions
- Mechanical seal
- Induction motor with thermal overload protection
- Integrated nozzle holder with stop/start pump lever
- Mesh filter



ATEX/ALU

EQUIPMENT



MAXIMUM SAFETY AND HIGH PERFORMANCE IN POTENTIALLY EXPLOSIVE ATMOSPHERES AND WITH FLAMMABLE FLUIDS.

A range of pumps (available in both stand-alone and drum versions), ATEX and UL certified, specifically for harsh working conditions and suitable for transferring petrol, kerosene and diesel fuels. The range is designed to guarantee maximum safety and a constant flow rate, even in complex systems.

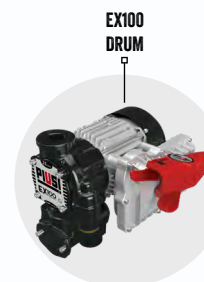
> EX100



FLOW RATE

Up to 100 l/min

- AC working continuous cycle
- ATEX/cULus certified
- Constant flow rate even in challenging systems
- Motor with heat protection



> EX140



FLOW RATE

Up to 140 l/min

- Continuous cycle AC operation
- ATEX/cULus certified
- Constant flow rate even in complex systems
- Motor with heat protection



> Our pumps comply with the following marking ATEX/IECEx:

II	2	G	Ex	d	IIA	T4	Gb
Group	Category	Type of explosive atmosphere	Permanent Prefix	Protection Method	Glass for gas	Temperature class	Protection level equipment

> FILTROLL

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.



OIL

DIESEL

OPERATING PRESSURE

Up to 15 bar

- Two step filtration
- AC and DC versions
- Filtering capacity: first stage 30μ with water absorption / second stage 5μ for impurities
- Sturdy wheeled structure
- Large wheel diameter

> HOSE REELS

The automatic hose reels for diesel and oil have been designed to ensure high efficiency in the off road sector. The sturdy structure can guarantee the best performance also in heavy duty conditions.



OIL

DIESEL

HOSE LENGTH

Up to 20 m

- Reduced pressure loss
- Rotating support plate
- Adjustable arm positions
- Hose stop
- Side protection covers

ACCESSORIES

SPECIALS

EQUIPMENTS

The full range of off-road products is completed with professional accessories for connecting products, filtering and delivery fluids to enhance and better suit every requirement.

AdBlue®

EQUIPMENT



THE MOST INNOVATIVE SOLUTIONS FOR EXPLOSIVE AND FLAMMABLE AdBlue®

A complete range of pumps and dispensers expressly engineered to transfer AdBlue® from IBC containers or drums into vehicle tanks. Materials and mechanical components, designed according to the strictest requirements of ISO 22241 Standard, prevent fluid contamination for a safe and reliable operation.

> SUZZARABLU 3 BASIC/PRO

AdBlue®

AdBlue® turnkey dispensing system for IBC tanks suitable for all working conditions. Available in AC/DC version, it is equipped with the SUZZARABLU pump, the 3D FILTER (in the PURE versions) and an automatic or manual nozzle. The PRO version includes the K24 meter for AdBlue® or the **SB325_X METER metered nozzle.**



*SUZZARABLU 3 PRO version

FLOW RATE

Up to 35 l/min

- 20 minutes duty time
- AC/DC versions
- 6 meters delivery hose
- Accuracy +/- 1%*
- 3D FILTER optional
- Integrated nozzle (automatic/manual)
- Steel support and ergonomic bracket system
- Several IBC connections available (SEC/AF2/ EXTERNAL SUCTION)

> SUZZARABLU DRUM

AdBlue®

AdBlue® dispensing system provided with a stainless steel adjustable base that allows it to be easily moved from one drum to another.



FLOW RATE

Up to 32 l/min

- 20 minutes duty cycle
- AC and DC versions
- 6 m delivery hose
- ON/OFF switch
- Stainless steel base
- AF2 connection

> PIUSI HAND PUMP

Stainless steel rotary hand pump certified for an easy and immediate transfer of AdBlue®. Its manufacturing tolerances, along with wear-resistant materials, guarantee many years of perfect operation.



FLOW RATE

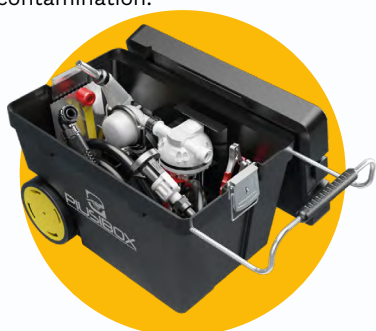
Up to 38 l/100 revolutions

- 2.5 m delivery hose
- Sturdy construction
- Suction hose and bung adapter

AdBlue®

> PIUSI BOX FOR AdBlue®

Portable AdBlue® dispenser designed to perform quick & clean AdBlue® transfer and filling operations, when environmental conditions may be among the leading causes of fluid contamination.



INSIDE PIUSIBOX

DC PUMP

SEC CONNECTOR

3D FILTER

AUTOMATIC NOZZLE

FLOW RATE

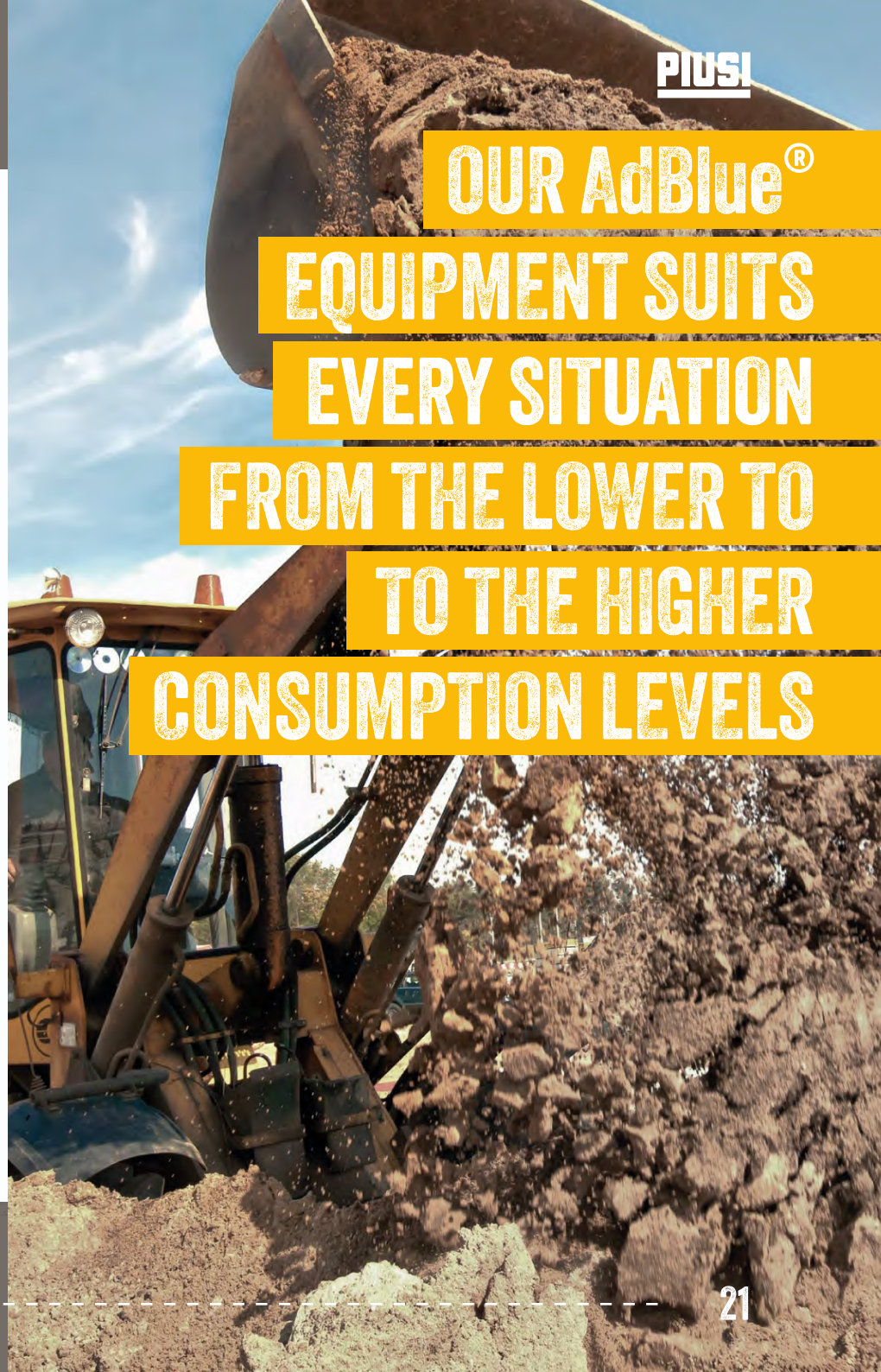
Up to 35 l/min

- Duty time 20 minutes on / 20 minutes off
- DC version
- 6 m delivery hose
- Self-priming pump
- 2 m suction hose
- SEC connections
- 3D filter

AdBlue®

PIUSI

**OUR AdBlue®
EQUIPMENT SUITS
EVERY SITUATION
FROM THE LOWER TO
TO THE HIGHER
CONSUMPTION LEVELS**



OFF-ROAD RANGE: THE PERFECT SOLUTION FOR EVERY NEED!

The OFF-ROAD range is available worldwide through a professional dealer network network of authorized dealers.

**Get in touch
with our local
partner to order
your dispenser
or contact PIUSI
for further
information**

A large yellow chevron graphic pointing to the right, located on the left side of the image.

PIUSI

A small yellow chevron graphic pointing to the right, located to the left of the website address.

piusi.com

PIUSI

MADE IN ITALY



piusi.com

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