

General Catalogue · 09.2008

Transfer | Filtering | Measurement | Control

FUEL

UREA

LUBRICANT

GREASE

WORKSHOP
EQUIPMENT

VEHICLE
DECONTAMINATION

CUSTOMIZED
PROJECTS



Dear customers:

TOT COMERCIAL,S.A., GESPASA products' manufacturer, is more than thirty years old since our first product birth.

Our aim is to look for your requirements, design and manufacture everything relating to the fuel and lubricant filtering, transfer, measurement and control. With these operation lines we have done this general catalogue, where you will find the latest in our wide range of products.

We want to thank you your support, both customers and installers, for these more than 30 years. We have improved our product service, design and range for all you. We hope to receive your suggestions to achieve the excellence managerial day by day.

We think that this general catalogue will be a useful tool for your business and we hope you will find your solution.

We want to take this opportunity to introduce you some of our most emphasized news in GESPASA products that you could find into this following catalogue pages:



Increase of the kit range



MINI supply kits with GK-7 controller



Electronic and biodiesel mixer supply kits



Biodiesel mixer supply kits with GK-7 controller



Filtering kits



Storage tanks



Storage kits



Installation accessories



UREA supply kits



Fuel and lubricant meters



Metallic units



Users

Our main aim: the end user satisfaction.

It is not enough to sell a product. It is necessary that the product complies with the expectations that the end user has about it. We are designing our products with this mentality. Durability, efficiency and ease of handling.



Regulations

In a global market, there are products of different sources.

The GESPASA products **are designed and made taking into account the current regulations applied to the hydrocarbon installations in Spain and European Union.**

The kits have the corresponding certifications for a sure use of the kits and adequate protection of the environment.



Manufacture

Total quality control.

Design, mould and form construction, metal-made furniture construction, plastic injection, machining, painting and assembly.

We have the equipment necessary to make all the manufacturing processes. This allows us to have a perfect control of all the productive processes.

We also have to add the final test that guarantees that the 100% of the kits go out of the factory with zero defects.

Supplier certificates

All the elements that are built-in to our manufactured products come from homologated suppliers that offer a constant quality supply.

After-sales service

The product repair and service department will be in charge of managing and solving the breakdowns that could arise, informing about the causes and the possible solutions to protect the kits.

Spare-parts and accessories

We have spare parts of all the products so that a product manufactured by GESPASA, in these more than thirty years, never stops working (unless there are regulation changes).



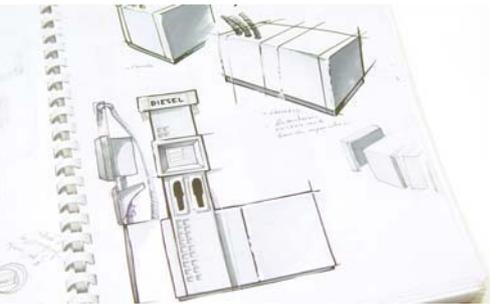
Maintenance agreements

It is advisable to sign up a preventive maintenance agreement in equipments or installations with high complexity to extend their useful life. So all our professional team will always be at your side to meet all your needs, where and when you need it.



Legalizations and Installations

The technical department will advise you to legalize your installation or readapt the existing one to the regulations currently in force.



I+D

Market information and test, continuous investment and qualified personnel are **the formula that we are following to always be in the vanguard of our market.**

Customized projects

Do not you find the solution to your needs in our catalogue? Have you had any idea and do not you know how to carry out it?

The I+D team will design the kit or the installation that is well-adapted to your requirements.

Environment

GESPASA is collaborating with institutions and private companies in the development and implementation of kits for the contaminant liquid collection, avoiding the permanent environment deterioration.

We are aware of the importance on the environment respect and this is reflected in all our business activity procedures.

1. The customer accepts these conditions and prices once he makes an order to GESPASA - TOT COMERCIAL, S.A. The prices always are EX WORKS.
2. All the orders should be made by writing: via fax, letter or email (*please, see the order sheet in the page 6*).
3. When you made an order for the first time, you should fill the following customer's card:

CUSTOMER'S CARD

VAT nr.	<input type="text"/>	E-mail	<input type="text"/>	Web	<input type="text"/>
Name	<input type="text"/>	BANK DATA			
Address	<input type="text"/>	Bank	<input type="text"/>		
Town	<input type="text"/>	Entity	<input type="text"/>		
ZIP code	<input type="text"/>	Office	<input type="text"/>		
Province	<input type="text"/>	D.C.	<input type="text"/>		
Contact person	<input type="text"/>	C/C number	<input type="text"/>		
Tel.	<input type="text"/>	Fax	<input type="text"/>		
		Payment day	<input type="text"/>		

CONSIGNMENTS · TRANSPORT

1. The goods always travel by customer's charge, either through his own forwarding agency or through our forwarding agency with the prices accepted by the customer. In this last case, the goods will be sent to the customer's address and the amount will be charged to the invoice.
2. It is essential to check the goods when you receive them. If there is any fault, you must immediately complain to the forwarder.
All the quality and/or amount complaint must be done by writing within the following THREE DAYS at the equipment reception. You have to clearly put on record the claim reason. WE DO NOT ACCEPT THE CLAIMS OUT OF THE MENTIONED TERM.
3. We do not accept the goods devolution or change if it does not fulfill the following conditions:
 - a) You must notify the claim reason by writing and accepted by GESPASA - TOT COMERCIAL, S.A. The goods must be sent with carriage paid.
 - b) The returned products must appear in this catalogue. We will not accept products that do not appear in this catalogue.
 - c) We will pay the same amount as the invoice, discounting the expenses of checking, paint, repackaging. These expenses are the minimum cost of the 21% of the product value.

WARRANTY

1. All the products manufactured by TOT COMERCIAL, S.A. have a WARRANTY of 12 (twelve) months from their purchase, against any manufacturing defect.
2. TOT COMERCIAL, S.A. guarantees, in the warranty period, the change, the devolution of the defective part or product. This equipment has to be sent at carriage paid to our factory or any designated technical service. After our technical inspection, we will decide if the responsibility belongs to the manufacturer, the user, the installer or the forwarding.
3. The warranty does not cover: the inadequate use, negligence, abuse, corrosion, manipulation, the natural wear or wrong product installation a use of non-original spare-parts or not concerning to the specific pattern. All the kits manufactured and/or commercialized by TOT COMERCIAL, S.A. must be installed, used and maintained in accordance with the instructions given by the manufacturer.
4. The accessories and products like valves, hoses, electrovalves, electric motors, etc. not manufactured by TOT COMERCIAL, S.A. are liable to their original manufacturer's warranty.
5. Because of the constant modifications and development, TOT COMERCIAL, S.A. keeps the right to modify the specifications of its products and publicity, without prior notice.

CUSTOMER SIGNATURE
DATE AND STAMP

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Installations



Injection and machining sections



Assembly section



Offices



Shows



Exhibition Hall



WHICH TYPE OF FUEL KIT DO YOU NEED?

- transfer litres

+ transfer litres

Supply



MANUAL KITS + pages 32-33

PUMP + ACCESSORIES



PUMP



HORIZONTAL KITS

VERTICAL KITS WITH TELESCOPIC TUBE

Flow	Voltage	Model	
50L/MIN	12/24VDC	AG-35	+ pages 20-21
80L/MIN	12/24VDC	AG-90	+ pages 24-25
50L/MIN	230VAC	AG-46	+ pages 22-23
80L/MIN	230VAC	AG-88 (0,37kW)	+ pages 26
100L/MIN	230VAC	AG-88 (0,74kW)	+ pages 27
50L/MIN	230VAC	AG-500	+ page 28
80L/MIN	230VAC	AG-800	+ page 28
150L/MIN	230VAC	BAG-800	+ page 29
200/1.000 L/MIN	230/660VAA	BDP	+ page 29

Control of partial supplied litres and control of total litres

PUMP + ACCESSORIES + METER



Flow	Voltage	
50L/MIN	12/24VDC	+ pages 20-21
80L/MIN	12/24VDC	+ pages 24-25
50L/MIN	230VAC	+ pages 22-23
80L/MIN	230VAC	+ page 26
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50L/MIN	230VAC	+ page 28
80L/MIN	230VAC	+ page 28
150L/MIN	230VAC	+ page 29

MINI SUPPLY KITS



+ page 36

MIDI SUPPLY KITS



+ page 37

STE-80CE + page 38

STE-80CED + page 38

USE: TANK FILTERING AND CLEANING

FILTRES + pages 43-45



EXTRACTORS-DECONTAMINATORS + pages. 44-45 and 63-64



USE: STORAGE

POLYTHENE, STEEL



POLYTHENE

STEEL TA



GRG TA

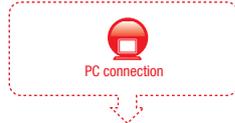
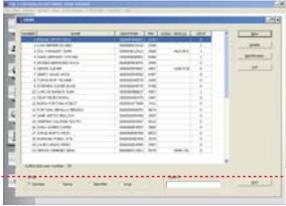
STORAGE

WHAT TYPE OF FUEL KIT DO YOU NEED?

ES (Supply and Control)

USE: Biodiesel

Control (for each user) of total supplied litres (through personal codes or magnetic key)



MINI SUPPLY KITS

+ page 36



GK-7 OWN CONSUMPTION CONTROLLER

+ pages 39-41



SUPPLY KITS WITH GK-7 CONTROLLER

+ page 42



SUPPLY KITS WITH GK-7 CONTROLLER

+ pages 38 and 42

ORAGE

L, ETC. TANKS

+ pages 52-56

E TANKS

TANKS

TANKS

E KITS



COMPLEMENTARY KITS AND ACCESSORIES

We have a complete range of complementary equipments such as: nozzles, hose-reels, accessories, adapters, bases, supports, ...

+ See general content pages 7-13

INSTALLATION ACCESSORIES



+ pages 57-61

WHICH TYPE OF LUBRICANT AND GREASE KIT DO YOU NEED?

WHICH TYPE OF LUBRICANT AND GREASE KIT DO YOU NEED?

USE: TRANSFER

SUPPLY

PUMPS FOR THE LUBRICANT SUPPLY IN VEHICLES

ELECTRIC



Supply with hose-reel up to 15m*

Flow	Voltage	Model	Pressure	
20-30L/MIN	12/24VDC	EA-90	6-8bar	+ page 73
20-35L/MIN	230VAC	EA-88 0,37kW	5-6bar	+ page 72



Supply with hose-reel up to 30m*

Flow	Voltage	Model	Pressure	
20-25L/MIN	230VAC	EA-88 0,74kW	9-10bar	+ page 72
50-55L/MIN	230VAC	EA-65 2,2kW	8-10bar	+ page 73

SUPPLIED LITRE CONTROL

PUMPS WITH METER BUILT-IN

ELECTRIC



Supply without hose-reel up to 15m*

Flow	Voltage	Model	Pressure	
20-30L/MIN	12/24VDC	SEA-90	6-8bar	+ page 73
20-35L/MIN	230VAC	SEA-88 0,37kW	5-6bar	+ page 72



Supply with hose-reel up to 30m*

Flow	Voltage	Model	Pressure	
20-25L/MIN	230VAC	SEA-88 0,74kW	9-10bar	+ page 72
50-55L/MIN	230VAC	SEA-65 2,2kW	8-10bar	+ page 73

USE: MEASURING



PNEUMATIC

+ page 79-80

Ratio	Pressure	Model	Use
1:1	8bar	GM-1	For 10m tube*
1:3	24bar	GM-3	For 30m tube*
1:5	40bar	GM-5	For more than 30m tube*
	High pressure	GC	



HIGH FLOW TRANSFER PUMPS

+ pages 74-75



DIAPHRAGM PUMPS FOR WASTE LUBRICANT AND OTHER LIQUIDS

+ pages 84-85



MGE-40

+ page 86

Accuracy: +/- 0,5 · Flow: 40l/min



MGE-50

+ page 86

Accuracy: +/- 0,5 · Flow: 50l/min



MGE-100

+ page 86

Accuracy: +/- 0,5 · Flow: 100l/min



MGE-150

+ page 86

Accuracy: +/- 0,5 · Flow: 150l/min



PMGE-40

+ page 87

Accuracy: +/- 0,5 · Flow: 20l/min

USE: SUPPLY AND MEASUREMENT

KIST WITHOUT INSTALLATION

FIXED



6m hose

ELECTRIC

+ page 78



PNEUMATIC

+ page 81



10m hose + hose-reel

ELECTRIC

+ page 78



PNEUMATIC

+ page 82

MOBILE



ELECTRIC

KDE-200E + C200
KDE-1000 + C200 + pages 77-78



PNEUMATIC

+ page 83

USE: FILTERING



FILTERS

+ page 75

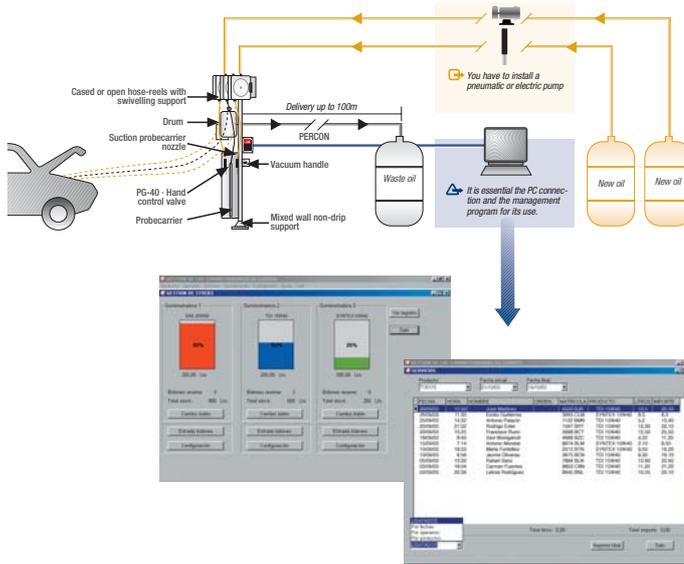
USE: MODULAR INSTALLATION KITS



Extraction
CEVG-3010
+ page 92

Extraction and supply
CLG-3010E
CLG-3015E
+ page 92

Extraction, supply and control
CPG-3010
CPG-3015
+ page 93



Lubricant management program (up to 3 different types)

PERCON CONTROL



+ pages 94-95

USE: LUBRICANT EXTRACTION AND RECOVERY



RECOVERY BY GRAVITY

+ page 89



MOBILE EXTRACTORS

+ pages 88-89



FIXED EXTRACTORS/DISPENSERS FOR WORKSHOPS AND SERVICE STATIONS

+ pages 90-91

USE: GREASING



MANUAL KITS

+ pages 102-103



PNEUMATIC GREASE PUMPS

+ page 104



MOBILE GREASE KITS

+ pages 104-105



FIXED KITS

+ page 105

ACCESSORIES AND COUPLINGS

+ pages 106-109

GREASE GUNS

+ page 109

USE: COMPLEMENTARY KITS AND ACCESSORIES

We have a complete range of complementary equipments such as: nozzles, hose-reels, accessories, adapters, bases, supports, ...

+ See general content pages 7-13

USE: STORAGE

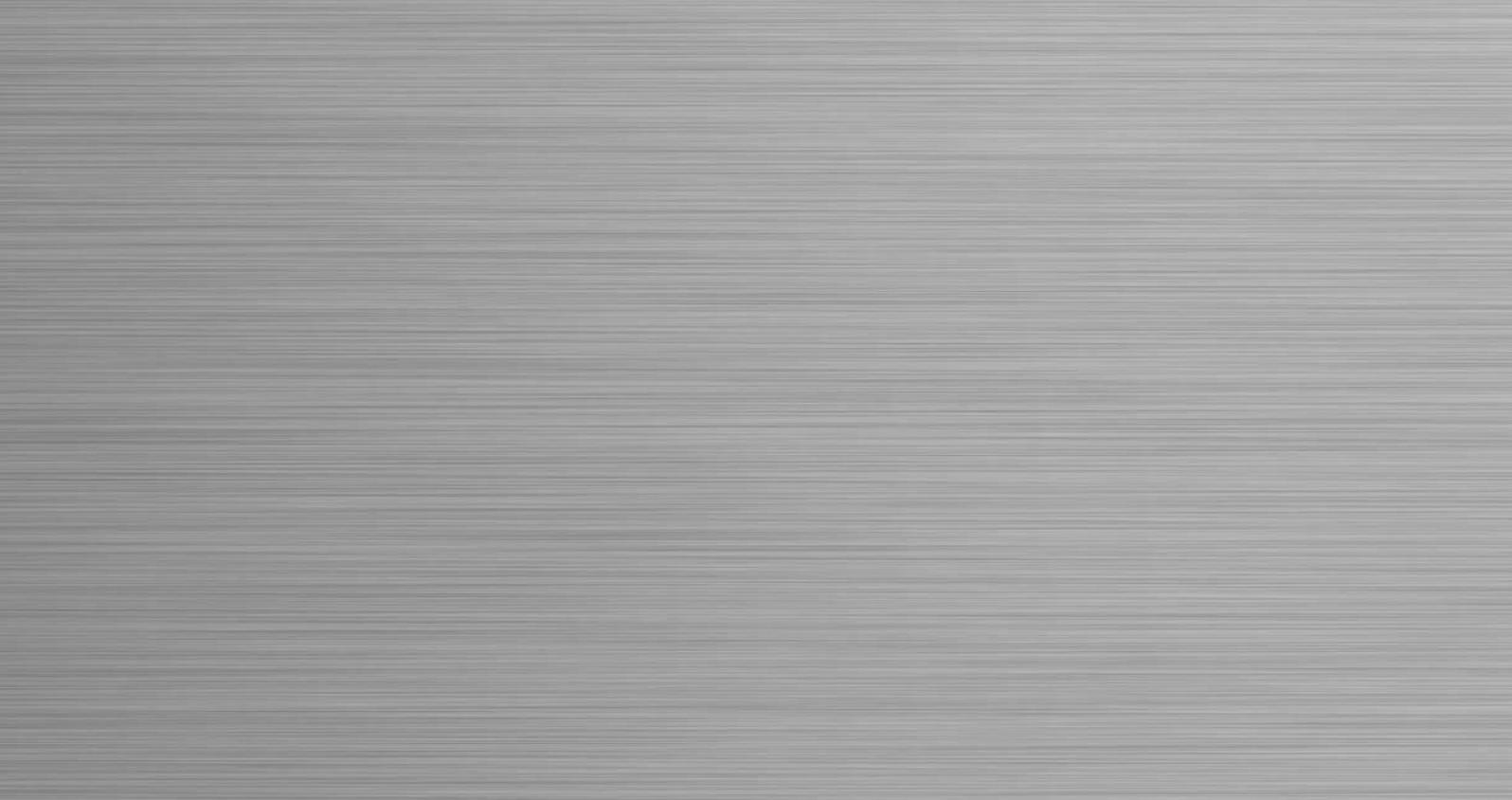


Polythene tanks



Steel tanks

+ page 100



FUELS

1 SELF-SUCTION DIESEL PUMPS

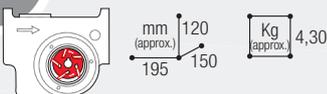
50
L/MIN

12/24
VDC

AG-35 Pump
(12 or 24VDC)



NEW
ROLLER
DESIGN



+ Equivalence boxes / Flow curves page 30



***Note: Free outlet flow rate.**
The final flow is subject to the accessories and the installation conditions (please, see page 30).

DESCRIPTION

CODE

50L/MIN 12 or 24VDC

AG-35 12VDC 45-56L/MIN
AG-35 24VDC 45-56L/MIN

00000
00010

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Suction: 2,5m · Delivery: 20m
- Consumption: 18-24A (12VDC) and 9-17A (24VDC)
- Motor: 0,30kW (12 and 24VDC) self-ventilated, dust protection
- R.P.M.: 3.000rpm
- Connection through F3/4" threads
- Continuous duty
- 2m cable with clamps
- Stainless steel filter in the suction of 352 micron
- Luminous switch with IP-55 protection

Other products related to AG-35 pump

SAG-35 with metal base nr. 3



*Nozzle not included

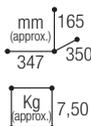


SAG-35 · PUMP WITH LITRE METER

Pump		Meters			Base	
AG-35 12VDC	AG-35 24VDC	MG-80 Mechanical	MGE-80 Electronic	MGE-80 RI-97 Electronic with preset and control frame	Metal nr. 3	
•		•				31010
	•					31000
•		•			•	30010
	•				•	30130
•			•			31270
	•		•			31280
•			•		•	30410
	•		•		•	30420
•				•		31291
	•			•		31301
•				•	•	30431
	•			•	•	30441

■ **Hose and nozzle not included** (please, see pages 46 and 48)

DIESEL BATTERY KIT 12 or 24VDC



DIESEL BATTERY KIT 12VDC
DIESEL BATTERY KIT 24VDC

14190
14200

- AG-35 12 or 24VDC pump
- PSF-040 - Manual aluminium nozzle with F1" swivel and curved end
- 4m antistatic delivery hose Ø19 double layer, special for diesel, with adapters in both ends
- PP Lower filter with STAINLESS mesh
- 2 brackets 23 x 35
- Brass elbow 90° MF 3/4"
- Adapter 3/4" PP
- It is supplied in a printed box, with EAN-13 bar code

DESCRIPTION

CODE

50L/MIN 12 or 24VDC

HORIZONTAL KITS WITH AG-35 PUMP

The horizontal kits are equipped with:

- AG-35 12 or 24VDC pump (with or without mechanical meter)
- Manual or automatic nozzle
- *Accessories:
 - 3m antistatic delivery hose Ø19mm double layer, special for diesel, with adapters in both ends
 - 1,70m elbow hose Ø21mm special for diesel
 - M3/4" x 26PP Adapter
 - 2 brackets 23 x 35
 - PP lower filter

Pump		Accessories	Meter	Nozzles		CODE
AG-35 12VDC	AG-35 24VDC			PSF-040 Manual	PA-60 Automatic (Swivel included)	
•		•		•		14000
	•	•		•		14010
•		•			•	14060
	•	•			•	14070
•		•	•	•		14500
	•	•	•	•		14510
•		•			•	14740
	•	•			•	14750



VERTICAL KITS WITH TELESCOPIC TUBE AND AG-35 PUMP

The vertical kits are equipped with:

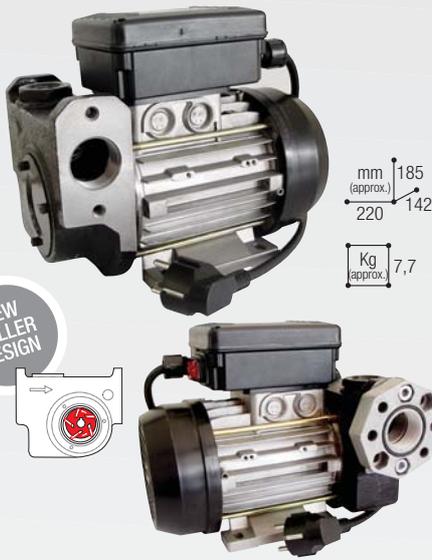
- AG-35 12 or 24VDC pump (with or without mechanical meter)
- Manual or automatic nozzle
- *Accessories:
 - M3/4" F1" telescopic tube kit, height 1,90m, with filter built-in
 - 4m antistatic delivery hose Ø19mm double layer, special for diesel with adapters in both ends

Pump		Accessories	Meter	Nozzles		CODE
AG-35 12VDC	AG-35 24VDC			PSF-040 Manual	PA-60 Automatic (Swivel included)	
•		•		•		15000
	•	•		•		15010
•		•			•	15060
	•	•			•	15070
•		•	•	•		15500
	•	•	•	•		15510
•		•			•	15650
	•	•			•	15660



1 SELF-SUCTION DIESEL PUMPS

AG-46 Pump



+ Equivalence boxes / Flow curves page 30



***Note: Free outlet flow rate.**
The final flow is subject to the accessories and the installation conditions (please, see page 30).

DESCRIPTION

CODE

50L/MIN 230VAC

AG-46 230VAC

00026

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Suction: 5m · Delivery: 30m
- Consumption: 1,2-2A
- Motor: 0,25kW 230VAC self-ventilated 50/60Hz single-phase with thermal protector
- IP-55 Protection
- R.P.M.: 2.800rpm
- Connection through F1" (BSP) threads or flanges
- It has built-in a cleaning steel filter of 352 micron
- ON/OFF luminous switch with IP-55 protection
- 3m electric cable with homologated plug
- S1 continuous duty



- **Optional (page 49)**
- F1" aluminium flange kit

800003022

Other products related to AG-46 pump

SAG-46 with metal base nr. 4



Connection of the meter to the pump through a long flange.

SAG-46 · PUMP WITH LITRE METER

Pump	Meters			Base		
						
AG-46 230VAC	MG-80 Mechanical	MGE-80 Electronic	MGE-80 RI-97 Electronic with preset	Universal support	Metal nr. 4	
•	•					31590
•	•				•	30700
•				•		30840
•		•				31610
•		•			•	30710
•			•			31620
•			•		•	30720

■ **Hose and nozzle not included (please, see pages 46 and 48)**



- **Optional (page 49)**
- M1" flange kit with short union in PA + Fibreglass
- M1" flange kit with long union in PA + Fibreglass
- Stainless filter-sieve of 352 micron Ø33mm

800003024
800003027
460000003

KIT EQUIPE



KIT EQUIPE

55050

Composed of:

- AG-46 230VAC pump
- MG-80 mechanical meter
- FG-2 transparent filter of capacity 2 litres of 5 micron, with water decanter and drain valve
- AS-5B steel enclosure for external use with low hose opening, inner nozzle hanger and locking with key and/or padlock (not included)

DESCRIPTION

CODE

50L/MIN 230VAC

KIT SAG-46 230VAC + AS-5P ENCLOSURE

55110

Composed of:

- AG-46 230VAC pump
- MG-80 mechanical meter
- AS-5P steel enclosure for external use with nozzle hanger with a micro-switch to make the automatic stopping and bottom hose opening, locking with key and/or padlock (not included).



Kit SAG-46 + AS-5P enclosure

mm (approx.)
585
620 330



50
L/MIN

230
VAC

HORIZONTAL KITS WITH AG-46 PUMP

The horizontal kits are equipped with:

- AG-46 pump (with or without mechanical meter)
- Manual or automatic nozzle
- *Accessories:
 - 4m antistatic delivery hose Ø3/4" double layer, special for diesel, with adapters in both ends
 - 1,70m elbow hose Ø25mm special for diesel
 - M1" x 25PP adapter
 - 2 brackets 25 x 40
 - PP lower filter

Pump	Accessories	Meter	Nozzles		
 AG-46 230VAC	*	 MG-80 Mechanical	 PSF-040 Manual	 PA-60 Automatic (Swivel included)	
•	•		•		14160
•	•			•	14690
•	•	•	•		14560
•	•	•		•	14590



Kit AG-46H

Kit SAG-46H

VERTICAL KITS WITH TELESCOPIC TUBE AND AG-46 PUMP

The vertical kits are equipped with:

- AG-46 pump (with or without mechanical meter)
- Manual or automatic nozzle
- *Accessories:
 - M1" F1 1/4" telescopic tube kit, height 1,90m with filter built-in
 - 4m antistatic delivery hose Ø3/4" double layer, special for diesel, with adapters in both ends
 - MF1" brass elbow

Pump	Accessories	Meter	Nozzles		
 AG-46 230VAC	*	 MG-80 Mechanical	 PSF-040 Manual	 PA-60 Automatic (Swivel included)	
•	•		•		15180
•	•			•	15250
•	•	•	•		15560
•	•	•		•	15580

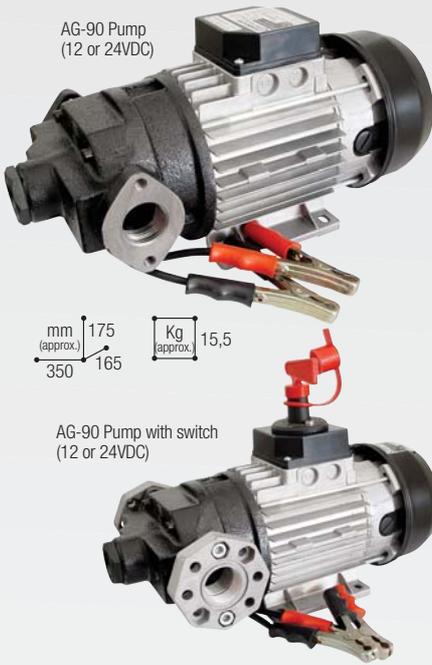


Kit AG-46V

Kit SAG-46V

1 SELF-SUCTION DIESEL PUMPS

80
L/MIN
12/24
VDC



AG-90 Pump
(12 or 24VDC)

AG-90 Pump with switch
(12 or 24VDC)

mm (approx.) 175
165
350

Kg (approx.) 15,5

Equivalence boxes / Flow curves page 30

Note: Free outlet flow rate.
The final flow is subject to the accessories and the installation conditions (please, see page 30).

DESCRIPTION

CODE

80L/MIN 12 or 24VDC

AG-90 12VDC 70-80L/MIN	00040
AG-90 24VDC 70-80L/MIN	00050
AG-90 12VDC 70-80L/MIN WITH SWITCH	00042
AG-90 24VDC 70-80L/MIN WITH SWITCH	00052

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Suction: 2,5m · Delivery: 20m
- Consumption: 35-53A (12VDC) and 24-32A (24VDC)
- Motor: 0,37kW (12 and 24VDC) self-ventilated, dust protected
- Continuous duty
- Tropicalized
- IP-55 Protection
- R.P.M.: 1.500rpm
- 3m cable with clamps
- Connection through F1" (BSP) threads or flanges



Optional (page 49)
- F1" aluminium flange kit

800003022

Other products related to AG-90 pump



SAG-90 with metal base nr. 4

*Nozzle not included

mm (approx.) 325
450
375

Kg (approx.) 23,6



Connection of the meter to the pump through a long flange.

SAG-90 · PUMP WITH LITRE METER

Pump		Meters			Base	
AG-90 12VDC	AG-90 24VDC	MG-80 Mechanical	MGE-80 Electronic	MGE-80 RI-97 Electronic with preset	Metal nr. 4	
•		•				31090
	•	•				31080
			•			30120
	•	•				30110
•			•			31330
	•		•			31340
•			•			30470
	•		•			30480
•				•		31350
	•			•		31360
•				•	•	30491
	•			•	•	30501

Hose and nozzle not included (please, see pages 46 and 48)



Optional (page 49)
- M1" flange kit with short union in PA + Fibreglass
- M1" flange kit with long union in PA + Fibreglass
- Stainless filter-sieve of 352 micron Ø33mm

800003024
800003027
460000003

DESCRIPTION

CODE

80L/MIN 12 or 24VDC

HORIZONTAL KITS WITH AG-90 PUMP

The horizontal kits are equipped with:

- AG-90 12 or 24VDC pump (with or without mechanical meter)
- Manual or automatic nozzle
- *Accessories:
 - 4m antistatic delivery hose Ø25mm double layer, special for diesel with adapters on both ends
 - 1,70m elbow hose Ø25mm special for diesel
 - Filter York 1"
 - 2 brackets 25 x 40
 - 2 adapters M1" x 25 PP
 - FF1" brass elbow

Pump		Accessories	Meter	Nozzles		CODE
AG-90 12VDC	AG-90 24VDC	*	MG-80 Mechanical	PSF-040 Manual	PA-80 Automatic (Swivel included)	
•		•		•		14040
	•	•		•		14050
•		•			•	14080
	•	•			•	14090
•		•	•	•		14540
	•	•	•	•		14550
•		•	•		•	14760
	•	•	•		•	14770



VERTICAL KITS WITH TELESCOPIC TUBE AND AG-90 PUMP

The vertical kits are equipped with:

- AG-90 12 or 24VDC (with or without mechanical meter)
- Manual or automatic nozzle
- *Accessories:
 - M1" F1 1/4" telescopic tube kit, height 1,90m with filter built-in
 - 4m antistatic delivery hose Ø25mm double layer, special for diesel with adapters on both ends

Pump		Accessories	Meter	Nozzles		CODE
AG-90 12VDC	AG-90 24VDC	*	MG-80 Mechanical	PSF-040 Manual	PA-80 Automatic (Swivel included)	
•		•		•		15040
	•	•		•		15050
•		•			•	15080
	•	•			•	15090
•		•	•	•		15540
	•	•	•	•		15550
•		•	•		•	15670
	•	•	•		•	15680



1 SELF-SUCTION DIESEL PUMPS

80
L/MIN

230
VAC

0,37
kW

AG-88 (0,37kW) Pump



mm (approx.) 205 165 310
Kg (approx.) 13

+ Equivalence boxes / Flow curves page 30

***Note: Free outlet flow rate.**
The final flow is subject to the accessories and the installation conditions (please, see page 30).

DESCRIPTION

CODE

80L/MIN 230VAC

AG-88 (0,37kW) 230VAC 70-80L/MIN

00030

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Suction: 5m · Delivery: 30m
- Consumption: 3-6A
- Motor: 0,37kW 230VAC 50Hz single-phase, dust protected, self-ventilated
- With thermal protector
- S1 continuous duty
- IP-55 protection
- R.P.M.: 1.500rpm
- Connection through F1" (BSP) threads or flanges
- ON/OFF luminous switch
- 3m electric cable with homologated plug



■ **Optional (page 49)**
- F1" aluminium flange kit

800003022

Other products related to AG-88 0,37kW pump

SAG-88 (0,37kW) with metal base nr. 4



*Nozzle not included

mm (approx.) 325 320 480
Kg (approx.) 21,6



Connection of the meter to the pump through a long flange.

SAG-88 (0,37kW) - PUMP WITH LITRE METER

Pump	Meters			Base	
 AG-88 (0,37kW)	 MG-80 Mechanical	 MGE-80 Electronic	 MGE-80 RI-97 Electronic with preset	 Metal nr. 4	
•	•			•	31060
•	•	•		•	30080
•		•		•	31370
•		•		•	30510
•			•	•	31380
•			•	•	30520

■ **Hose and nozzle not included (please, see pages 46 and 48)**



■ **Optional (page 49)**
- M1" flange kit with short union in PA + Fibreglass
- M1" flange kit with long union in PA + Fibreglass
- Stainless filter-sieve of 352 micron Ø33mm
- FUP-1 FF1" filter of 352 micron (page 43)

800003024
800003027
460000003
66030

Kit AG-88V (0,37kW)

Kit SAG-88V (0,37kW)



VERTICAL KITS WITH TELESCOPIC TUBE AND AG-88 (0,37kW) PUMP

The vertical kits are equipped with:

- AG-88 0,37kW pump (with or without mechanical meter)
- Manual or automatic nozzle
- *Accessories:
 - M1" F1 1/4" telescopic tube kit, height 1,90m with filter built-in
 - 4m antistatic delivery hose Ø25mm double layer, special for diesel with adapters on both ends

Pump	Accessories	Meter	Nozzles		
 AG-88 (0,37kW)	✱	 MG-80 Mechanical	 PSF-040 Manual	 PA-80 Automatic (Swivel included)	
•	•		•		15030
•	•			•	15033
•	•	•	•		15530
•	•	•		•	15534

DESCRIPTION CODE

100L/MIN 230VAC

AG-88 (0,74kW) 230VAC 80-100L/MIN 00032

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Suction: 5m · Delivery: 30m
- Consumption: 3,5-6A
- Motor: 0,74kW 230VAC 50Hz single-phase, self-ventilated
- With thermal protector
- S1 continuous duty
- IP-55 protection
- R.P.M.: 1.500rpm
- Connection through F1" (BSP) threads or flanges
- ON/OFF luminous switch
- 3m electric cable with homologated plug



■ **Optional** (page 49)
- F1" aluminium flange kit 800003022

AG-88 (0,74kW) Pump



+ Equivalence boxes / Flow curves page 30
*Note: Free outlet flow rate. The final flow is subject to the accessories and the installation conditions (please, see page 30).

100 L/MIN

230 VAC

0,74 kW

Other products related to AG-88 0,74kW pump

SAG-88 (0,74kW) · PUMP WITH LITRE METER

Pump	Meters	Base	
 AG-88 (0,74kW)	 MG-80 Mechanical	 Metal nr. 4	31061
	 MGE-80 Electronic		30081
	 MGE-80 RI-97 Electronic with preset		31371
			30512
			31381
			30521

■ *Hose and nozzle not included (please, see pages 46 and 48)*



■ **Optional** (page 49)
- M1" flange kit with short union in PA + Fibreglass 800003024
- M1" flange kit with long union in PA + Fibreglass 800003027
- Stainless filter-sieve of 352 micron Ø33mm 460000003
- FUP-1 FF1" filter of 352 micron (page 43) 66030



SAG-88 (0,74kW) with metal base nr. 4



Connection of the meter to the pump through a long flange.

VERTICAL KITS WITH TELESCOPIC TUBE AND AG-88 (0,74kW) PUMP

- The vertical kits are equipped with:
- AG-88 0,74kW pump (with or without mechanical meter)
 - Manual or automatic nozzle
 - *Accessories:
 - M1" F1 1/4" telescopic tube kit, height 1,90m with filter built-in
 - 4m antistatic delivery hose Ø25mm double layer, special for diesel with adapters on both ends

Bomba	Accessories	Meter	Nozzles	
 AG-88 (0,74kW)		 MG-80 Mechanical	 PSF-040 Manual	15031
			 PA-80 Automatic (Swivel included)	15032
				15531
				15535



Kit AG-88V (0,74kW) Kit SAG-88V (0,74kW)

2 SELF-SUCTION EXPLOSION-PROOF PETROL PUMPS

50
L/MIN

230
VAC



NEW
ROLLER
DESIGN

AG-500 Pump



mm (approx.) 155
240 165

Kg (approx.) 11,4

Equivalence boxes / Flow curves page 30



***Note: Free outlet flow rate.**
The final flow is subject to the accessories and the installation conditions (please, see page 30).

DESCRIPTION

CODE

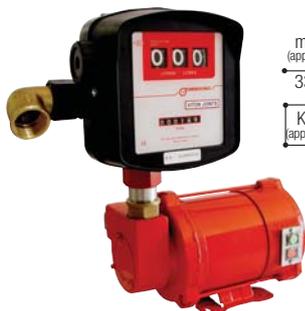
50L/MIN 230VAC

AG-500 230VAC 45-50L/MIN

10030

- Self-suction - self-priming, explosionproof, eccentric with self-adjusting blades
- With recirculation bypass
- Suction: 5m
- Consumption: 1-2A
- R.P.M.: 2.850rpm
- Motor: 0,18kW 230VAC 50Hz single-phase EExd
- S2 30' operation
- IP-55 protection
- Certificate EExd IIB T4 ISSEP02 ATEX036
- With thermal protector
- Thread connection: F3/4" (BSP)
- ON/OFF switch

SAG-500



mm (approx.) 335
335 190

Kg (approx.) 13

SAG-500 - PUMP WITH LITRE METER

Pump	Meter	Base
 AG-500 230VAC	 MG-80V Mechanical Viton joints	 Metal nr. 3
•	•	•
•	•	•

31250
30650

Hose and nozzle not included (please, see pages 46 and 48)

80
L/MIN

230
VAC



AG-800 Pump



mm (approx.) 155
350 165

Kg (approx.) 17,4

Equivalence boxes / Flow curves page 30



***Note: Free outlet flow rate.**
The final flow is subject to the accessories and the installation conditions (please, see page 30).

80L/MIN 230VAC

AG-800 230VAC 70-80L/MIN

10040

- Self-suction - self-priming, explosionproof, eccentric with self-adjusting blades
- With recirculation bypass
- Suction: 5m
- Consumption: 2,3-3,5A
- R.P.M.: 1.430rpm
- Motor: 0,37kW 230VAC 50Hz single-phase EExd
- S2 30' operation
- IP-55 protection
- Certificate EExd IIB T4 ISSEP02 ATEX036
- With thermal protector
- Connection: through threads F1" (BSP) or flanges
- ON/OFF switch



Optional (page 49)
- F1" aluminium flange kit

800003022

SAG-800 - PUMP WITH LITRE METER

Pump	Meter	Base
 AG-800 230VAC	 MG-80V Mechanical Viton joints	 Metal nr. 4
•	•	•
•	•	•

31260
30800

Hose and nozzle not included (please, see pages 46 and 48)

SAG-800



mm (approx.) 170
450 350

Kg (approx.) 19



Optional (page 49)
- M1" flange kit with short union in PA + Fibreglass
- M1" flange kit with long union in PA + Fibreglass
- Stainless filter-sieve of 352 micron Ø33mm

800003024
800003027
460000003

DESCRIPTION CODE

150L/MIN 230/400VAC

BAG-800 230/400VAC 100-150L/MIN 27520

- Self-suction - self-priming. Eccentric of self-adjusting blades
- With recirculation bypass
- Flow: 100-150l/min
- Consumption: 4,5-6A (230VAC) 1,8-2,7A (400VAC)
- Motor: 1kW 230/400VAC 50Hz 3ph
- Increased security
- With thermal protector
- S1 continuous duty
- R.P.M.: 1.400rpm
- Certificate EExe IIB T3 LCIE 92C6073X
- Inlet/outlet connection: 1 1/2" BSP
- Bypass pressure: 3-3,5bar



150
L/MIN

230
VAC



+ Equivalence boxes / Flow curves page 30

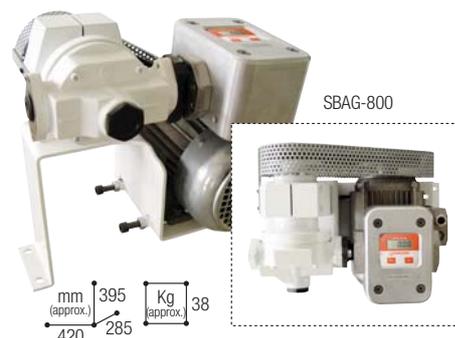


*Note: Free outlet flow rate.
The final flow is subject to the accessories and the installation conditions (please, see page 30).

SBAG-800 100-150L/MIN + MGE-150 27530

- **Supply kit composed of:** self-suction bedplate pump with EExe motor and wheel system with MGE-150 electronic meter. Its motor with ELECTRIC INCREASED SECURITY PROTECTION makes it suitable for the diesel transfer (please, consult other liquids).

■ *Hose and nozzle not included (please, see pages 46 and 48)*



200-1000L/MIN 230-660VAC

- Vane pumps of high flow, self-suction, positive displacement, constant flow, inaudible and heavy-duty.
- Made of die casting iron, with lubricated ball rollers and these are isolated of the product pumped through two mechanical sealings.
- It is specially intended for the transfer of high volumes, S-1 service, continuous for fuel tank charging and discharging, storage of fuel, hydrocarbon, petrol, diesel, kerosene and another non-corrosive liquid and without solid particles in suspension.
- All the pumps have built-in bypass valve.

BDP-200 of F1 1/2" THREAD 10100

- Flow: 200 l/min
- Recommended diametres: suction tube 2" - delivery tube 2"
- Operation pressure: 3,5bar
- Power: 2,2kW
- Motor EExd IIB T4 230/400VAC 50Hz · IP-55 protection

BDP-300 of F2 1/2" THREAD 10120

- Flow: 300 l/min
- Recommended diametres: suction tube 2 1/2" - delivery tube 2 1/2"
- Operation pressure: 3,5bar
- Power: 2,2kW
- Motor EExd IIB T4 230/400VAC 50Hz · IP-55 protection

BDP-500 of F2 1/2" THREAD 10110

- Flow: 500 l/min
- Recommended diametres: suction tube 3" - delivery tube 3"
- Operation pressure: 3,5bar
- Power: 4kW
- Motor EExd IIB T4 230/400VAC 50Hz · IP-55 protection

BDP-1000 of F3" THREAD 10130

- Flow: 1000 l/min
- Recommended diametres: suction tube 4" - delivery tube 4"
- Operation pressure: 3,5bar
- Power: 7,5kW
- Motor EExd IIB T4 400/660VAC 50Hz · IP-55 protection



BDP-200	mm (approx.) 285 880 325	Kg (approx.) 85,5
BDP-300	mm (approx.) 345 1000 355	Kg (approx.) 125
BDP-500	mm (approx.) 345 1.050 365	Kg (approx.) 148,5
BDP-1000	mm (approx.) 405 1.264 420	Kg (approx.) 227

DIESEL PUMPS

AG-35 12 or 24VDC

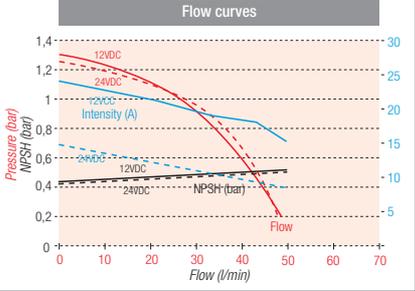


+ Page 20

Equivalence box

	FREE	PT-60	PSF-040	PA-60
AG-35 12VDC	53l/min 16A	43l/min 18A	44l/min 18A	34l/min 19A
SAG-35 12VDC	43l/min 17A	34l/min 18A	36l/min 18A	28l/min 19A
AG-35 24VDC	53l/min 7,9A	43l/min 8,5A	44l/min 8,9A	33l/min 9,5A
SAG-35 24VDC	42l/min 8,5A	34l/min 8,9A	36l/min 9,1A	28l/min 9,5A

CONNECTION: 3/4" - SUCTION: 2,7m 3/4" - DELIVERY: 4m 1"



AG-46 230VAC

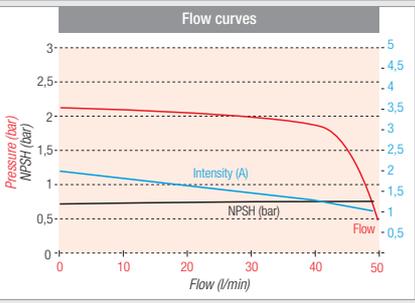


+ Page 22

Equivalence box

	FREE	PT-60	PSF-040	PA-60
AG-46 230VAC	50l/min 1,5A	45l/min 1,6A	46l/min 1,6A	45l/min 1,6A
SAG-46 230VAC	47l/min 1,5A	42l/min 1,6A	43l/min 1,7A	42l/min 1,7A

CONNECTION: 3/4" - SUCTION: 2,7m 3/4" - DELIVERY: 4m 1"



AG-90 12 or 24VDC

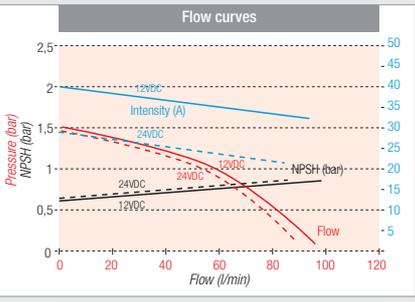


+ Page 24

Equivalence box

	FREE	PSF-040	PA-80	PA-120
AG-90 12VDC	90l/min 38A	75l/min 42A	70l/min 44A	76l/min 42A
SAG-90 12VDC	65l/min 45A	58l/min 48A	56l/min 48A	60l/min 46A
AG-90 24VDC	92l/min 30A	78l/min 32A	72l/min 33A	80l/min 31A
SAG-90 24VDC	68l/min 34A	60l/min 35A	57l/min 36A	62l/min 35A

CONNECTION: 1" - SUCTION: 2,7m 1" - DELIVERY: 4m 1"



AG-88 0,37kW 230VAC

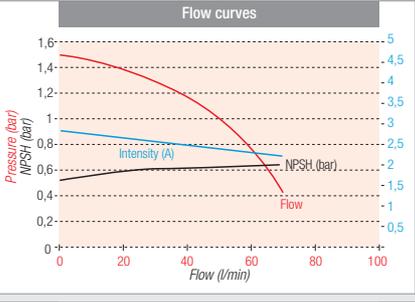


+ Page 26

Equivalence box

	FREE	PSF-040	PA-80	PA-120
AG-88 0,37KW	85l/min 2,3A	61l/min 2,3A	57l/min 2,4A	72l/min 2,3A
SAG-88 0,37KW	58l/min 2,3A	46l/min 2,4A	40l/min 2,4A	46l/min 2,3A

CONNECTION: 1" - SUCTION: 2,7m 1 1/4" - DELIVERY: 4m 1"



AG-88 0,74kW 230VAC

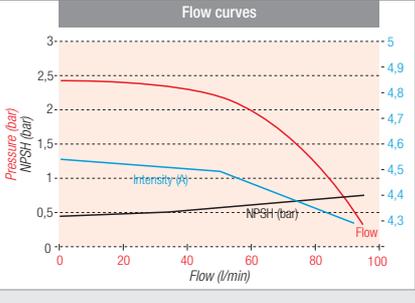


+ Page 27

Equivalence box

	FREE	PSF-040	PA-60
AG-88 0,74KW	93l/min 3,4A	80l/min 4,6A	72l/min 4,6A
		PA-80	PA-120
		83l/min 4,3A	88l/min 3,6A

CONNECTION: 1" - SUCTION: 2,7m 1 1/4" - DELIVERY: 4m 1"

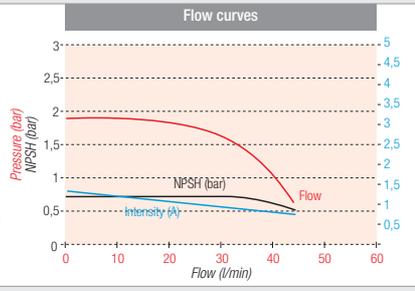


PETROL PUMPS

AG-500 230VAC



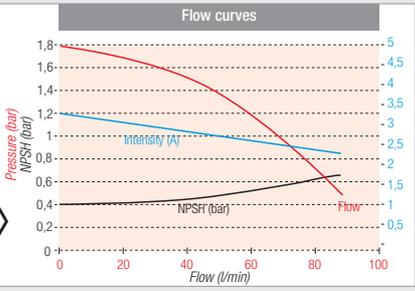
+ Page 28



AG-800 230VAC



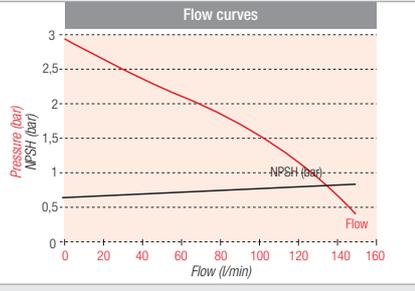
+ Page 28



BAG-800 230-400VAC



+ Page 29



DESCRIPTION

CODE

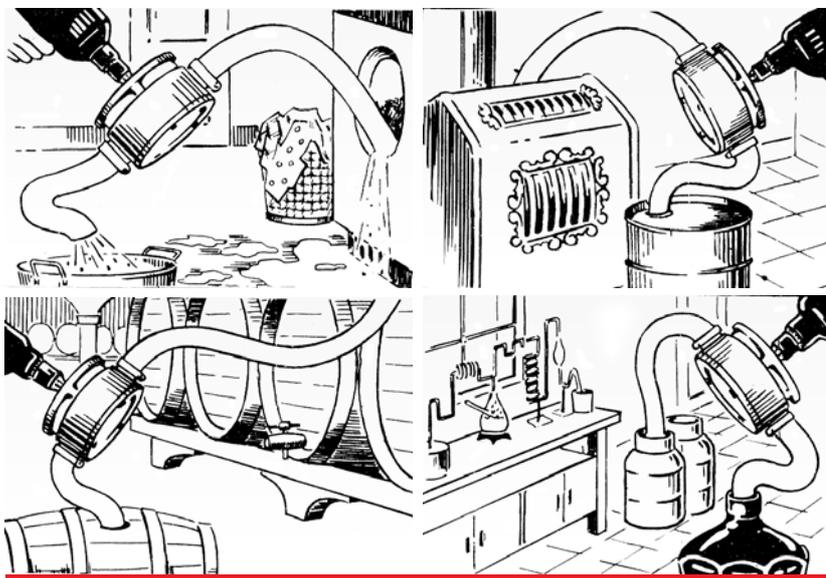
BT-87 · SELF-SUCTION DRILL PUMP

00100

- This small pump is a useful accessory to empty all type of baths, aquariums, toilet bowls, washing machines, flooded basements, ...; it is also useful as caravanning auxiliary, laboratories, ... because of the liquid transfer through a drill or its built-in motor
- It is special for diesel, water, herbicides, antifreeze, ...
- It is adapted to any type of hand-held or professional drill (2000/2500rpm); it can be connected to hose Ø24mm
- It is supplied with a box with pictures and EAN-13 bar code

Technical data:

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



BT-87

**CENTRIFUGAL PUMP: 100-500L/MIN 230VAC****CG-150 230VAC · CENTRIFUGAL PUMP - 100-500L/MIN**

02050

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

CG-150

mm (approx.) 250
370 200

Kg (approx.) 23,3



SCG-150

mm (approx.) 475
370 200

Kg (approx.) 28,8

**SCG-150 · PUMP WITH LITRE METER**

Pump	Meter	Base	
 CG-150	 MGE-150 Electronic	 Metal nr. 3	
			31720
			30970



mm (approx.) 95
206 83

Kg (approx.) 1,5



mm (approx.) 95
208 160

Kg (approx.) 1,8

DESCRIPTION

CODE

SELF-SUCTION DIAPHRAGM PUMPS

- Continuous use for water transfer at pressure
- Flow: 0,5 to 8l/min
- Self-suction: 2m
- Operation in dirt
- Automatic demand-pressure switch
- Consumption: according to pump model
- Connection through F3/8" (NPT) thread

	Voltage			Buna diaphragm		
	12VDC	24VDC	230VAC	2 valves	4 valves	
■ AF-2012	•			•		07000
■ AF-2024		•		•		07050
■ AF-2220			•	•		07030
■ AF-4012	•				•	07020
	12VDC	24VDC	230VAC	Viton diaphragm - 2 valves		
■ AF-2012V	•				•	07060
■ AF-2024V		•			•	07080
■ AF-2220V			•		•	07070
	12VDC		230VAC	High pressure. Self-ventilated Buna diaphragm - 4 valves		
■ AF-2036 AP	•				•	07010
■ AF-2240 AP			•		•	07040



- **Optional**
- FF 3/8" transparent vessel filter

802705001



BP-5

TMG-040

TMG-080



TMG-150



BP-5 - MANUAL LEVER PUMP

04010

Manual lever pump for transferring diesel, all type of lubricants and other non-corrosive fluids from barrels of 50 to 200 litres.

Technical data:

- The pump body is made of aluminium like the discharging tube
- Metallic suction telescopic tube of 88cm made of aluminium
- Connection 2" adaptable to metallic barrels of 50, 100 and 200 litres
- Nitrile or viton joints
- Transfer capacity: 0,5 litres x piston-stroke (*litres per lever stroke*)

MANUAL BELLOWS PUMPS

Made of plastic. They are suitable for the transfer of aggressive, chemical liquids, solvents, petrol, diesel, water and wine.

■ TMG-040	04060
- Tube pump of 0,4m for 50 litre barrel	
- Flow: 6l/min (<i>it depends on the piston-stroke</i>)	
- It is suitable for the refuelling of kerosene stoves	
■ TMG-080	04050
- Tube pump of 0,8m for 200 litre barrel	
- Flow: 20l/min (<i>it depends on the piston-stroke</i>)	
■ TMG-150	04040
- Flexible pump 1,5m	
- Flow: 6l/min (<i>it depends on the piston-stroke</i>)	
- It is suitable to put in the vehicle tanks	

DESCRIPTION

CODE

MANUAL PISTON PUMP WITH DOUBLE ACTION

The manual piston pump of double action is suitable for diesel, oil, fuel, alcohol, printing solvents and petrol. It is supplied with a hole to hang the nozzle, the hose and the accessories to prevent the dirt and dust entry in the nozzle.

Technical data:

- Capacity: 1 litre per stroke
- Inlet: 1" (NPT)
- Outlet: 3/4" (NPT)
- Hose: 2,5m hose 3/4" petrol resistance
- Drum plug: adjustable at 2"
- Suction tube: Ø33,5mm x 1m
- Aluminium body
- Stainless steel inlet
- Hardened steel handle
- Self-lubricating sealing
- It is supplied with nozzle hanger



	Pump	Meter		
				
		MG-80 Mechanical	MG-80V Mechanical Viton joints	
■ BMP-1	•			04020
■ BMP-180	•	•		31390
■ BMP-180V	•		•	31770

MANUAL ALUMINIUM ROTARY PUMP

- Self-suction rotary pump for a continuous transfer of lubricants and fuels
- It is adaptable to barrels from 50 to 200 litres
- It has built-in an M2" adapter adjustable on height for the barrel fixation

Technical data:

- Type: rotary vanes
- Capacity: 20 litres/70 rounds
- Suction tube: Ø32mm
- Discharging tube: Ø25mm
- Materials:
 - body: tempered aluminium alloy
 - handle: aluminium die casting



	Pump	Meter	Filter	
				
		MG-80 Mechanical	1" York filter	
■ BRM-88	•			04030
■ BRM-89	•		•	04070
■ BRM-8880	•	•		34050



DO NOT USE THE PUMP FOR ORGANIC SOLVENTS OR STRONG ALKALIS AND ACIDS THAT COULD DAMAGE THE RUBBER SEALS.

10-90
L/MIN
+/-1%



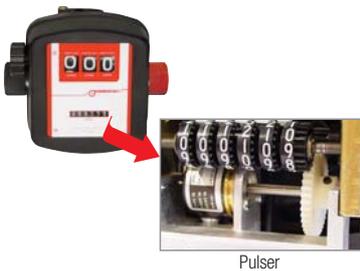
DESCRIPTION

CODE

MG-80 · MECHANICAL METER
MG-80V · MECHANICAL METER WITH VITON JOINTS

32000
32070

- Fireproof measuring chamber with oscillant disc
- Flow: 10-90l/min
- Accuracy: +/- 1%
- Partial indicator of 3 digits and totalizer of 6 digits
- Maximum operation pressure: 3,5bar
- Maximum temperature: 60°C
- 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 micron.
- It is suitable for hydrocarbon liquid (please, consult other liquids)
- For private use, not suitable for fiscal operations



MGI-80 · MECHANICAL METER WITH PULSER
MGI-80V · MECHANICAL METER WITH VITON JOINTS AND PULSER

32050
32230

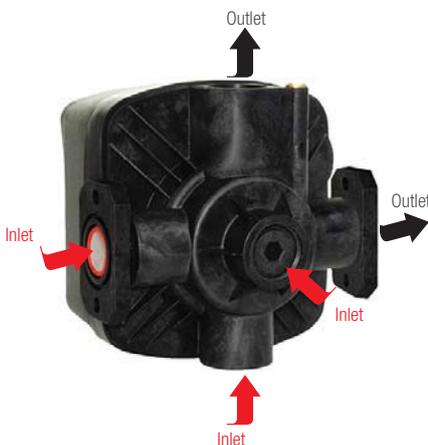
- This meter has the same features as the MG-80 mechanical meter with a pulser in its inner of 2 communication channels that allow the connection to an own consumption controller.
- It is equipped with lateral packing gland and 90cm of connection cable
- Pulses per litre: 10 pulses per channel



MGE-80 · ELECTRONIC METER
MGE-80V · ELECTRONIC METER WITH VITON JOINTS

32030
32140

- Fireproof measuring chamber with oscillant disc
- Flow: 10-90l/min
- Accuracy: +/- 1%
- Partial indicator of 4 digits and 2 decimals with automatic reset and totalizer of 6 digits
- Liquid crystal high luminosity Display
- 1 lithium button battery of 3V CR2450
- It works both with litres, gallons, pints and quarts.
- Calibration function and totalizer stored in PERMANENT memory
- Maximum operation pressure: 3,5bar
- Maximum temperature: 60°C
- 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 micron.
- It is suitable for diesel use (please, consult other liquids)
- For private use, not suitable for fiscal operations



- Optional accessories
 - Filter FUP-1 FF1" GAS (BSP) of 352 micron (page 44)
 - M1" flange kit with short union in PA + Fibreglass (page 49)
 - M1" flange kit with long union in PA + Fibreglass (page 49)
- Special plastic flange with 50% of Fibreglass to be adapted to our meters, both mechanical and electronic meters, to pumps and/or pipes. Optionally it is supplied with STAINLESS filter-sieve of 352 micron to avoid the impurities entry in the meter inner.*
- When you made your order it would be necessary to indicate in which connection you want this flange. This flange cannot be removed because of its special adhesive fixation. Otherwise we are supplying the flange kit so you can install it in some of the meter connections.**

66030
800003024
800003027

- Filter-sieve of 352 micron Ø33mm
- MM1" brass union
- MF1" PA + Fibreglass with BSP short thread
- MF1" PA + Fibreglass with BSP long thread
- NBR Ø24x3,5 joint
- MF1" PA + Fibreglass with BSP short thread and 352 micron stainless sieve

460000003
807200008
320004017
320004018
803100022
320004117

DESCRIPTION	CODE
MGE-80 RI-97 - ELECTRONIC METER WITH PRESET AND AUTOMATIC STOP	32040
MGE-80V RI-97 - ELECTRONIC METER WITH VITON JOINTS, WITH PRESET AND AUTOMATIC STOP	32150

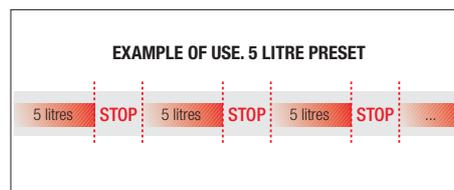
- Features similar to the MGE-80 meter (please, see the previous page)
- With preset and self-stopping
The pumping kit automatically stops when it arrives at zero after supplying the preset litres.
- It is supplied with male plug and 1m of cable to connect the pump. It is also equipped with exterior connection (female plug).
- Connection 230VAC
- For private use, not suitable for fiscal operations

MGE-80 RI-97



MGE-80R - ELECTRONIC METER WITH REPEATER 32190

- This meter has the same features as the MGE-80 RI-97, having built-in a repeater in its inner.
- It allows the supply of a preset amount as many times as the customer wants without having to preset again this amount.
- Automatic pump stop



MG-80A - MECHANICAL ALUMINIUM METER 32300

- Aluminium body
- Flow: 10-90l/min
- Accuracy: +/- 1%
- Partial indicator of 3 digits and totalizer of 6 digits
- Maximum operation pressure: 5bar
- Resistance pressure: 15bar
- Maximum temperature: 60°C
- Minimum temperature: -10°C
- Polyamide + Fibreglass housing
- Inlet/outlet Connections: 1" GAS (BSP)
- 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)
- For private use, not suitable for fiscal operations



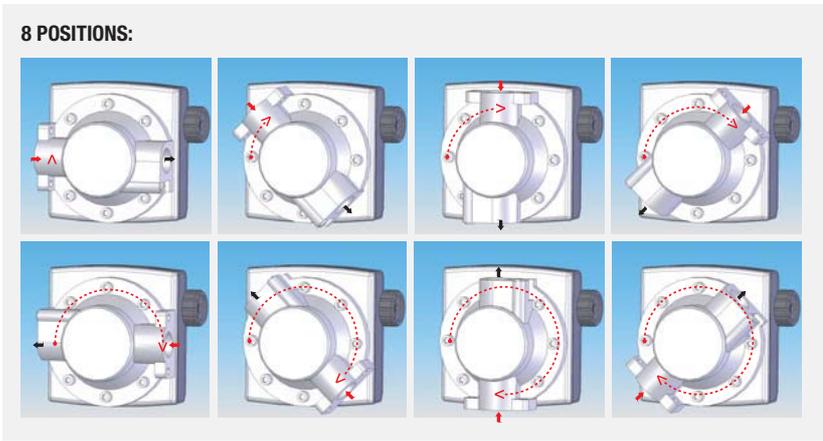
mm (approx.) 165 132 180 Kg (approx.) 1,95



Optional accessories:

- FUP-1 FF1" GAS (BSP) filter of 352 micron
- M1" plastic long union flange kit

66030
800003027



SEE THE GEAR METERS IN PAGE 86

DESCRIPTION

CODE

MINI supply kits suitable for the diesel supply, measuring and control to own consumption vehicles.

They are composed of:

- Chassis made of steel. Finish with brilliant epoxid paint. Weatherproof.
- 4m Ø19 or 25mm (it depends on the pump) delivery antistatic diesel hose of double layer with adapters in both ends



MSGM - MINI MECHANICAL SUPPLY KITS



- MSGM-3580
- MSGM-4680
- MSGM-8880

Pumps	Meter	Nozzles		Flow l/min	
	MG-80 Mechanical	PA-60 Automatic	PA-80 Automatic (Swivel included)		
AG-35 12VDC	•	•		35-45	28110
AG-46	•	•		40-50	28040
AG-88 0,74kW	•		•	70-80	28070



- MSGM-50080
- MSGM-80080



AG-500 EExd	•	•		45-50	28140
AG-800 EExd	•		•	70-80	28150

MSGE - MINI ELECTRONIC SUPPLY KITS



- MSGE-4680
- MSGE-8880

Pumps	Meter	Nozzles		Flow l/min	
	MGE-80 RI-97 Electronic with preset	PA-60 Automatic	PA-80 Automatic (Swivel included)		
AG-46	•	•		40-50	28050
AG-88 0,74kW	•		•	70-80	28090

■ Optional

- Hexagonal pedestal base (MINI) (height 1m)
- F1" aluminium flange

800400014
800003028



MINI ELECTRONIC SUPPLY KITS WITH GK-7 CONTROLLER

Controller features:

- This GK-7 controller is suitable for the supply control, only allowing its use to authorized personnel.
- User and/or vehicle identification through codes and/or identification key
- Supply with or without preset litres

It controls:

- Supply hour and date

- Users: 60 or 130 (according to the model)

- Vehicles
- Supplied litres
- Kilometres (or hours) and consumption
- Stock de litros en el tanque



*Maximum weight and size without hose nor nozzle



- MINI 35K-60
- MINI 46K-60
- MINI 46K-130

Pumps	Controller	Nozzles		Users	Memory / Services	Flow l/min	
	GK-7	PA-60 Automatic	PA-80 Automatic (Swivel included)				
AG-35	•	•		60	200	40-50	28580
AG-46	•	•		60	200	45-50	28540
AG-46	•	•		130	500	45-50	28550
AG-88 0,74kW	•		•	60	200	80	28500
AG-88 0,74kW	•		•	130	500	80	28510

■ Optional

- Hexagonal pedestal base (MINI GK-7) (height 1m)

800400015

DESCRIPTION

MIDI supply kits suitable for the diesel supply, measuring and control to own consumption vehicles.

They are composed of:

- Chassis made of steel. Finish with brilliant epoxid paint. Weatherproof.
- 4m Ø19 or 25mm (it depends on the pump) delivery antistatic diesel hose of double layer with adapters in both ends

CODE

mm (approx.)	1,070	SM-4680	SM-8880	SM-50080	SM-80080
	260	Kg (approx.) 38	Kg (approx.) 45,8	Kg (approx.) 41,7	Kg (approx.) 47,7
	490				



SM - MIDI MECHANICAL SUPPLY KITS

	Pumps	Meter	Nozzles	Flow l/min	
		MG-80 Mechanical	PA-60 Automatic PA-80 Automatic (Swivel included)		
■ SM-4680	AG-46	•	•	40-50	26610
■ SM-8880	AG-88 0,74kW	•	•	70-80	26522
■ SM-50080	AG-500 EExd	•	•	40-50	26540
■ SM-80080	AG-800 EExd	•	•	60-70	26560



mm (approx.)	1,070	SE-4680	SE-8880	SE-50080	SE-80080
	260	Kg (approx.) 39	Kg (approx.) 42,7	Kg (approx.) 46,8	Kg (approx.) 48,8
	490				



SE - MIDI ELECTRONIC SUPPLY KITS

	Pumps	Meter	Nozzles	Flow l/min	
		MGE-80 RI-97 Electronic with preset	PA-60 Automatic PA-80 Automatic (Swivel included)		
■ SE-4680	AG-46	•	•	40-50	26590
■ SE-8880	AG-88 0,74kW	•	•	70-80	26630
■ SE-50080	AG-500	•	•	40-50	26550
■ SE-80080	AG-800	•	•	60-70	26570



The services are saved in memory and they could be passed to a computer through communication via:

- Memory key (only the option with 60 users)
- Cable (RS-485)
- MODEM GSM
- ETHERNET

The consult and configuration operations can be made from the computer or directly from the supply kit if you have the supervisor code or the identification

key. It can:

- Type and cancel users and / or vehicles
- Assign or change codes or keys of the users and / or vehicles
- Calibrate the kit
- Consult the supplies
- Consult and regularize the tank stock
- Configure the communication and other options of the controller

Optional accessories:

• Memory key code 251201001

■ Communication kit via MEMORY KEY (SOFTWARE + Converter + 1 memory key) code 257120000

COMMUNICATION WITH KEY MAXIMUM 200 SERVICES AND 100 USERS

■ Communication kit via CABLE (SOFTWARE + Converter) code 257110000

■ Communication kit via ETHERNET (SOFTWARE + Converter) code 257130000

■ Communication kit via MODEM/GSM (SOFTWARE + Converter) code 257140000

See Management Software pages 40-41



mm
(approx.)
1.500
400
720

Kg
(approx.)
100



mm
(approx.)
1.505
400
862

Kg
(approx.)
150,5



DESCRIPTION

CODE

STE-80CE 230VAC SINGLE-PHASE · SUPPLY KIT (70-80l/min)
STE-80CE 230/400VAC THREE-PHASE · SUPPLY KIT (70-80l/min)
STE-130CE 230/400VAC THREE-PHASE · SUPPLY KIT (130l/min)

26083
26081
26351

Supply kit with ATEX components, special for diesel, petrol and kerosene supply installations. It is composed of a high accuracy hydraulic group.

Composed of:

- **Chassis:** Made of steel. Finish with brilliant epoxid paint. Weatherproof. It has built-in an anchorage base with drip plate.
- **Hydraulic group composed of:**
 Pump: Self-suction, eccentric of self-adjusting blades with gas separator · Free flow: 70-80l/min (STE-80CE); 130l/min (STE-130CE) · recirculation bypass valve, check valve, filter
 Meter: Made of aluminium of 4 pistons of positive displacement · accuracy: 0,2% · pulser of 2 channels of 100 pulses per litre and mechanical totalizer
 Motor: 1kW 230/400VAC · motor EExd with ATEX certificate, three-phase, with IP-55 protection; or 0,90kW 230VAC · motor EExd with ATEX certificate, single-phase, with IP-55 protection

■ **EL-1 Electronic display**

Automatic starting and stop; luminous display with high visibility liquid crystal; partial indicator of 3 digits and 2 decimals or 4 digits and 1 decimal; electronic totalizer of 5 digits.

It is supplied with:

- 4m delivery diesel hose Ø25mm of double layer with adapters in both ends
- PA-80 automatic nozzle with swivel (mod. STE-80CE)
- PA-120 automatic nozzle (mod. STE-130CE)

STE-80CED 230VAC SINGLE-PHASE · DOUBLE SUPPLY KIT (70-80l/min)
STE-80CED 230/400VAC THREE-PHASE · DOUBLE SUPPLY KIT (70-80l/min)
STE-130CED 230/400VAC THREE-PHASE · DOUBLE SUPPLY KIT (130l/min)

26382
26381
26352

Double supply kit with ATEX components, special for diesel, petrol and kerosene supply installations. It is composed of a high accuracy hydraulic group.

Composed of:

- **Chassis:** Made of steel. Finish with brilliant epoxid paint. Weatherproof. It has built-in an anchorage base with drip plate.
- **2 Hydraulic groups composed of:**
 Pump: Self-suction, eccentric of self-adjusting blades with gas separator · Free flow: 70-80l/min (STE-80CED); 130l/min (STE-130CED) · recirculation bypass valve, check valve, filter
 Meter: Made of aluminium of 4 pistons of positive displacement · accuracy: 0,2% · pulser of 2 channels of 100 pulses per litre and mechanical totalizer
 Motor: 1kW 230/400VAC · motor EExd with ATEX certificate, three-phase, with IP-55 protection; or 0,90kW 230VAC · motor EExd with ATEX certificate, single-phase, with IP-55 protection

■ **2 EL-1 Electronic Displays**

Automatic starting and stop; luminous display with high visibility liquid crystal; partial indicator of 3 digits and 2 decimals or 4 digits and 1 decimal; electronic totalizer of 5 digits.

It is supplied with:

- 2 delivery diesel hose Ø25mm of double layer with adapters in both ends of 4m
- 2 PA-80 automatic nozzles with swivel (mod. STE-80CED)
- 2 PA-120 automatic nozzles (mod. STE-130CED)

■ **Optional accessories:**

- SAI 500W ON LINE
- 4m antistatic unleaded petrol Ø19mm with adapters in both ends
- FG-2 filter · capacity 2 litres · 5 micron microfiltration
- FG-10 filter · capacity 10 litres · 5 micron microfiltration
- PA-80 Automatic unleaded petrol nozzle
- FF1" (BSP) «breakaway» reconnection valve (see page 59)
- Flexible suction supply kit tube with 2" flange

805001002
803406009
39021
66050
47251
805604021
807610002

**SMHE-90C · ELECTRONIC BIODIESEL MIXER SUPPLY KIT**

26770

The supply kit is defined as a fuel supplying and measuring set, with the possibility of supplying a fluid composed of a different product mixture.

This kit has built-in two professional hydraulics, which electronics allows adjusting the proportion of bio oil and diesel that you want to mix.



TO KEEP THE WARRANTY AND PROTECT THE KIT YOU HAVE TO INSTALL A SAI ON LINE (UNINTERRUPTED POWER SUPPLY AND VOLTAGE STABILIZER)

DESCRIPTION

GK-7 - OWN CONSUMPTION CONTROLLER

The GK-7 own consumption controller is an equipment suitable for the supply control, allowing only its use to authorized personnel. **It can be connected from 1 to 4 pumps.**

Depending on the security level that we want to implement, we could use the user and/or vehicle identification through codes and/or identification key.

Supply with or without litre preset.

There are the following GK-7 versions to be adapted to installations of different sizes:

	USERS	VEHICLES	SERVICES	CODE		CODE
■ GK-7 of 60	60	60	200	25132	■ + PRINTER	25142
■ GK-7 of 130	130	130	500	25130	■ + PRINTER	25140
■ GK-7 of 1000	1000	1000	1000	25131	■ + PRINTER	25141



mm (approx.) 410
550 400
Kg (approx.) 17



Please, see pages 40-41 software

The equipment allows defining different scenes to be adjusted to your requirements:

- **User identification:** you only identify the users. It is specially useful for cooperatives that you only want to identify the person who is supplying.
- **Vehicle identification:** you only identify the vehicles. It is specially useful for installations where you only want to identify and control the vehicles and their consumption, without identifying the users.
- **User and vehicle identification:** it is the more complete system and it is offering a higher security level. It is specially useful for installations with a high number of users and/or vehicles, or where the users often change the vehicle.

■ GK-7 technical data

- Voltage: 230VAC 50Hz
- Consumption: 30W
- Temperature in service: from 0° to 40°C
- Relative air humidity: among 20% an 80%
- Built-in supply inlet filter
- Frontal: Display LCD alphanumeric of 4 lines and 20 characters
- Impact printer of 24 columns
- Automatic paper cutter
- Key reader / recorder
- Keypad of 14 keys

■ Controller features

It controls:

- Supply hour and date
- Users: 60 or 130 (according to the model)
- Vehicles
- Supplied litres
- Kilometres (or hours) and consumption
- Tank litre stock

The services are saved in memory and they could be passed to a computer.

The consult and configuration operations can be made from the computer or directly from the supply kit if you have the supervisor code or the identification key. It can:

- Type and cancel users and / or vehicles
- Assign or change codes or keys of the users and / or vehicles
- Calibrate the kit
- Consult the supplies
- Consult and regularize the tank stock
- Configure the communication and other options of the controller

If you want to manage the equipment through a computer, it increases the equipment potential in the following:

- A more comfortable and efficient management, all the typing, cancellation, modification and consult operations are made from the computer;
- The information created by the equipment is incorporated in a data base;
- Possibility of exporting the information managed by the program to Excel and to text format to export to other systems of data base or programs;
- Access control to the information through permissions for different user profiles;
- Multiconsole. With a computer, the GK-7 software and many licences as consoles you want to control, you could manage different equipments, both local and remote, in a centralized way;
- Different communication systems to connect your computer with one or more controllers: via memory key, via cable, via Ethernet or via MODEM/GSM.



Optional: Pedestal base

+ INFO



TO KEEP THE WARRANTY AND PROTECT THE KIT YOU HAVE TO INSTALL A SAI ON LINE (UNINTERRUPTED POWER SUPPLY AND VOLTAGE STABILIZER)

+ INFO



DESCRIPTION

CODE

GK-7 · OWN CONSUMPTION CONTROLLER

COMMUNICATIONS

There is only one software for the computer to manage the GK-7 controller that can grow at the ritm that the installation is growing. If in a next future you need another controller, with another licence and a communication system you could manage this new equipment without introducing the user, vehicle, consumption and service data.

Optional accessories:

- SAI ON-LINE 500W
- Communication kit via MEMORY key (Software + converter + 1 memory key)
- Communication kit via CABLE (Software + converter)
- Communication kit via ETHERNET (Software + converter)
- Communication kit via Modem/GSM (Software + converter)
- GK-7 identification key (pack of 10 units)
- GK-7 memory key (red)
- GK-7 additional licence (multistation)
- Memory key PC converter
- RS232-485 cable converter
- LAN/RS485 ETHERNET converter
- GSM/RS485 converter
- GSM converter
- Hexagonal pedestal base

805001002
257120000
257110000
257130000
257140000
251201002
251201001
257150000
251208003
251208000
251208001
251208002
251208020
800400013

GK-7 · MULTIHOSE PLATE

251208025

To connect more than one hose, you could install the multihose plate, one for each hose.

Optional accessories:

Memory key
code 251201001

GK-7 SOFTWARE

- Communication kit via MEMORY KEY
(SOFTWARE + Converter + 1 memory key)
code 257120000

COMMUNICATION WITH KEY MAXIMUM
200 SERVICES AND 100 USERS

GK-7 SOFTWARE

- Communication kit via CABLE
(SOFTWARE + Converter)
code 257110000

GK-7 SOFTWARE

- Communication kit via ETHERNET
(SOFTWARE + Converter)
code 257130000

GK-7 SOFTWARE

- Communication kit via MODEM/GSM
(SOFTWARE + Converter)
code 257140000

See Management Software pages 40-41

GK-7

NUMBER	NAME	IDENTIFIER	PIN	ASSIG. VEHICLE	GROUP
1	MIGUEL ORTIZ OSCA	00000E9805C	1234		0
2	LUIS HERREROS DIEZ	00000E5C521D	2345		1
3	ZOLY HUNGARY SAFE	000000E12512	2560	3421-BVC	1
4	HANS GERMAN STRONG	000000E95562	5486		1
5	MOISES BERMUDEZ ROCA	00000E5B03FD	3456		0
6	SIMON CLEVER	000000054867	4567	1200-FCB	0
7	GEERT SALES HOOK	000000004582	6487		0
8	TOM EUROPE TECHNIK	000000046578	3465		0
9	STEPHEN CLEVER BOSS	000000004578	9788		0
10	CARLOS BARBOS JUAN	00000E566637	4567		1
11	FELIP MEJIN MORAL	000000000476	3487		0
12	MURIA FORTUNA ROBOT	000000477888	7411		0
13	FORTUNA SERRALLA MENUDO	0000000000F5	9674		0
14	JANE ARETIO BELLOCH	000000000498	4567		0
15	ANDREW CALORISE SOUTH	000000049587	0032		0
16	SARA GOMES CUNES	000000049587	3885		0
17	JORGE BORTO MOIX	00000000E458	8523		0
18	RAIMOND PUELL STEL	000000000458	3215		0
19	LAURO HIGHO REMO	000000004585	2587		0
20	SERGIO GIMENEZ SENA	00000E5C45E1	5678	0099-CDL	0

Authorized user number: 20

Order: Number Name Identifier Group

Search:

Page 39-40 Technical controller data

SERVICES

User: ANY Vehicle: ANY Initial Date: 01/07/2007 Final Date: 31/07/2008 Console: ALL

NUMBER	DATE	HOUR	USER	VEHICLE	CONSOLE	M / HOURS	LITRES	PRICE	AMOUNT	CONSUM.
20	23/09/2007	06:56	MOISES BERMUDEZ ROCA	1290-FCB	1	0	28,98	0,759	22,00	
19	22/09/2007	20:02	MOISES BERMUDEZ ROCA	GI-4130-BN	1	182,490	600,50	0,759	455,78	52,91
18	22/09/2007	19:09	MISUEL ORTIZ OSCA	5412-CVP	1	4,853	854,30	0,759	648,41	2,43
17	22/09/2007	17:41	LUIS HERREROS DIEZ	0098-CDL	1	0	23,53	0,759	17,36	
16	18/09/2007	07:20	MISUEL ORTIZ OSCA	9863-DSW	1	234,738	276,98	0,759	205,67	22,62
15	17/09/2007	08:22	MOISES BERMUDEZ ROCA	GI-4130-BN	1	151,225	625,00	0,759	474,38	51,74
14	13/09/2007	12:00	MOISES BERMUDEZ ROCA	GI-4130-BN	EXIT	150,147	610,08	0,980	628,16	41,36
13	12/09/2007	13:06	CARLOS BARROS JUAN	0098-CDL	1	0	28,90	0,759	21,94	
12	11/09/2007	20:13	SERGIO GIMENEZ SENA	9863-DSW	1	233,520	345,09	0,759	261,92	33,18
11	11/09/2007	19:12	MISUEL ORTIZ OSCA	3421-BVC	1	23,908	42,45	0,759	32,22	13,87
10	10/09/2007	08:23	MOISES BERMUDEZ ROCA	GI-4130-BN	1	148,702	589,45	0,759	447,39	35,04
9	07/09/2007	15:13	SERGIO GIMENEZ SENA	9863-DSW	1	232,490	265,29	0,759	201,36	27,32
8	06/09/2007	16:49	MOISES BERMUDEZ ROCA	1290-FCB	1	0	28,98	0,759	22,00	
7	05/09/2007	15:34	CARLOS BARROS JUAN	3421-BVC	1	23,602	33,23	0,759	25,22	7,27
6	04/09/2007	12:16	MOISES BERMUDEZ ROCA	GI-4130-BN	1	147,020	720,32	0,759	546,72	53,40
5	04/09/2007	19:46	MOISES BERMUDEZ ROCA	1290-FCB	1	0	25,45	0,759	19,32	
4	03/09/2007	16:43	CARLOS BARROS JUAN	9863-DSW	1	231,509	320,12	0,759	242,97	
3	02/09/2007	18:56	LUIS HERREROS DIEZ	5412-CVP	1	4,561	741,00	0,759	562,42	
2	02/09/2007	10:36	MOISES BERMUDEZ ROCA	GI-4130-BN	1	145,671	690,45	0,759	524,05	
1	02/09/2007	09:36	MOISES BERMUDEZ ROCA	0098-CDL	1	0	15,45	0,759	11,73	
1	02/09/2007	00:56	MISUEL ORTIZ OSCA	3421-BVC	1	23,145	45,89	0,759	34,83	

Service number: 21 Total Litres: 6.936,34 Total Amount: 5.406,34

LISTS SERVICES USER SERVICES VEHICLE SERVICES USER SUMMARY VEHICLE SUMMARY

GK-7 CONTROLLER SOFTWARE DEMO VERSION

File Users Vehicles Services Stock Communication Configuration Operators Help

VEHICLES

NUMBER	NUMBER PLATE	IDENTIFIER	CTRL	M / HOURS	FUEL	GRUPO
2	9863-DSW	7894	K	231.989	BIODIESEL 015	0
4	0098-CDL	1234	N		BIODIESEL 015	1
5	1290-FCB	4567	N		BIODIESEL 015	1
12	3421-BVC	5942	K	23.908	BIODIESEL 015	0
13	5412-CVP	2345	H	4.853	BIODIESEL 015	0
212	GI-4130-BN	4130	K	150.231	BIODIESEL 015	0

Authorized vehicle number: 6

Order: Number Number Plate Identifier

NEW VEHICLE

Number: 1
 Number Plate: 1255-D05
 Identifier: 1255
 Grup: 1 / EMPRESA 1
 Product: ANY
 Consumption Control: By Mileage
 Mileage / Hours: 125000
 Theoretic Consumption: 7.5
 Accepted Deviation: 10 %

GK-7 CONTROLLER SOFTWARE DEMO VERSION

File Users Vehicles Services Stock Communication Configuration Operators Help

STOCK

DEPOSITO 1

35%

BIODIESEL 015

Capacity: 10.000 Litres
 Level: 3.576 Litres
 Considered Litre Value: 0,681 g
 Considered Tank Value: 2.435,26 g

Input Regularization See Register Print Situation



DESCRIPTION

CODE



PC connection

mm (approx.)
1.500
720 400

Kg (approx.)
103



Please, see pages 40-41 software



PC connection

mm (approx.)
1.500
920 500

Kg (approx.)
157



Please, see pages 40-41 software

SHK-70C · SUPPLY KITS WITH CONTROLLER · EExe/d 70-80L/MIN SHK-130C · SUPPLY KITS WITH CONTROLLER · EExe/d 130L/MIN

Supply kit with ATEX components, special for diesel, petrol and kerosene supply installations. This kit is composed of a high accuracy hydraulic group and the GK-7 own consumption controller.

■ **Chassis:** Made of steel. Brilliant epoxid paint finish. Weatherproof.

■ **Hydraulic group composed of:**

Pump: Self-suction, eccentric with self-adjusting blades and gas separator · Flow: 70-80l/min (SHK-70C); 130l/min (SHK-130C) · recirculation bypass valve, check valve, filter

Meter: made of aluminium of 4 pistons with positive displacement · accuracy: 0,2%, pulser of 2 channels of 200 pulses per litre and mechanical totalizer

Motor: 1kW 230/400VAC · EExd motor with ATEXcertificate, three-phase, with IP-55 protection; or 0,90kW 230VAC · EExd motor with ATEXcertificate, single-phase, with IP-55 protection

■ **Own consumption controller: GK-7**

It is supplied with:

- 4m Ø25mm delivery diesel hose, of double layer, with 1" adapters in both ends
- PA-80 automatic nozzle with swivel (mod. SHK-70C)
- PA-120 automatic nozzle (mod. SHK-130C)

70-80 l/min	■ SHK-70C · 130 users - 500 services · Single-phase	26391
	■ SHK-70C · 130 users - 500 services · Three-phase	26390
	■ SHK-70C · 1000 users - 1000 services · Single-phase	26431
	■ SHK-70C · 1000 users - 1000 services · Three-phase	26430
130 l/min	■ SHK-70CIT · 130 users - 500 services · Single-phase + printer	26401
	■ SHK-70CIT · 130 users - 500 services · Three-phase + printer	26400
	■ SHK-70CIT · 1000 users - 1000 services · Single-phase + printer	26441
	■ SHK-70CIT · 1000 users - 1000 services · Three-phase + printer	26440
130 l/min	■ SHK-130C · 130 users - 500 services · Three-phase	26450
	■ SHK-130C · 1000 users - 1000 services · Three-phase	26460
	■ SHK-130CIT · 130 users - 500 services · Three-phase + printer	26451
	■ SHK-130CIT · 1000 users - 1000 services · Three-phase + printer	26461

SHK-70CD · DOUBLE SUPPLY KITS WITH CONTROLLER · EExe/d 70-80L/MIN SHK-130CD · DOUBLE SUPPLY KITS WITH CONTROLLER · EExe/d 130L/MIN

It has the same features as the above kits but it also has:

-2 Hydraulic groups and 2 GK-7 own consumption controllers

It is supplied with:

- 2 Ø25mm delivery diesel hoses of double layer with adapters in both ends of 4m
- 2 PA-80 automatic nozzles with swivel (mod. SHK-70CD)
- 2 PA-120 automatic nozzles (mod. SHK-130CD)

70-80 l/min	■ SHK-70CD · 130 users - 500 services · Single-phase	26411
	■ SHK-70CD · 130 users - 500 services · Three-phase	26410
	■ SHK-70CD · 1000 users - 1000 services · Single-phase	26421
	■ SHK-70CD · 1000 users - 1000 services · Three-phase	26420
130 l/min	■ SHK-130CD · 130 users - 500 services · Three-phase	26470
	■ SHK-130CD · 1000 users - 1000 services · Three-phase	26490
70-130 l/min	■ SHK-70/130CD · 130 users - 500 services · Three-phase	26480
	■ SHK-70/130CD · 1000 users - 1000 services · Three-phase	26481
Optional:	- SAI 500W ON LINE	805001002
	- PA-80 automatic unleaded petrol nozzle	47251
	- 4m unleaded petrol hose with adapters in both ends	803406009
	- FG-2 filter of 2 litre capacity · 5 micron microfiltration	39021
	- FG-10 filter of 10 litre capacity · 5 micron microfiltration	66050
	- 1" BSP «breakaway» reconnection valve	805604021
	- Flexible suction tube with 2" flange	807610002
- Identification key (pack of 10 units)	251201002	

SMHK-90C · BIODIESEL MIXER SUPPLY KIT WITH GK-7 OWN CONSUMPTION CONTROLLER

26760

The supply kit is defined as a fuel supplying and measuring set, with the possibility of supplying a fluid composed of a different product mixture.

This kit has built-in two professional hydraulics, which electronics allows adjusting the proportion of bio oil and diesel that you want to mix.

DESCRIPTION	CODE
YORK BASE FILTERS	
1/2" York Base filter	802700004
3/4" York Base filter	802700005
1" York Base filter	802700003
1 1/4" York Base filter	802700002
1 1/2" York Base filter	802700001
2" York Base filter	802700006



York base filter

	CHECK VALVES WITH / WITHOUT YORK BASE FILTER	
	With filter	Without filter
1/2" check valve	805600001	805601009
3/4" check valve	805600002	805601002
1" check valve	805600003	805601003
1 1/4" check valve	805600004	805601004
1 1/2" check valve	805600005	805601005
2" check valve	805600006	805601006
2 1/2" check valve	805600007	805601007
3" check valve	805600008	805601008



Check valve + York Base filter



1" Multivalent vessel filter

5BAR FF1/2" ALUMINIUM VESSEL FILTER	802702001
1" MULTIVALENT VESSEL FILTER	802704003
FUP-1 FF1" FILTER (POLYAMIDE + FIBREGLASS) OF 352 MICRON	66030
SELF-CLEANING LOWER FILTER	66020
FF3/8" TRANSPARENT VESSEL FILTER	802705001
FG-2 FILTER - TRANSPARENT FILTER OF 2 LITRE CAPACITY	39021
FG-2G FILTER - TRANSLUCID FILTER OF 2 LITRE CAPACITY	39070



Aluminium vessel filter



FUP-1 Filter



Self-cleaning lower filter



Transparent vessel filter

- Capacity: **2 litres** · Filtration: 5 micron
- Water decanter: by water repellent filtering paper, with water decanting of 93%
- Transfer capacity: 105l/min
- Upper filter housing: Plastic with F1" BSP metallic connections
- FG-2 Housing: Transparent plastic · FG-2G Housing: Translucent white plastic
- Inlet / Outlet: F1" BSP
- Filtering capacity: 500.000 litres (*normal conditions*)
- Installation: On the pumping kit suction
- Operation pressure: 0,3 - 0,5bar
- Manual drain valve in the vessel to empty the impurities
- It is supplied with a picture box with EAN-13 bar code and with a key for replacing the cartridge



FG-2



FG-2G

mm (approx.) 280
175
Kg approx. 1,85

FG-2BIO TRANSPARENT FILTER SPECIAL FOR BIODIESEL · 25 MICRON *Biodiesel* 39022

It has the same features as the FG-2 transparent filter but with a filtration of 25 micron and it has not got water repellent system.

	Optional	
	- Cartridge replacing KEY	660705000
	- 5 micron paper filtering element spare kit + joints	660708001
	- 25 micron paper filtering element spare (biodiesel) + joints	660708002

FG-10 · TRANSPARENT FILTER OF 10 LITRE CAPACITY *Diesel Petrol* 66050

- Capacity: **10 litres** · Filtration: 5 micron (with water separation at 93%)
- Flow: 210l/min
- Filter cover: aluminium casting
- Transparent vessel: PA + fibreglass
- Inlet / Outlet: F1 1/2" GAS (BSP)
- Vacuum gauge: -1 +3bar
- Manual lower drain valve to empty impurities
- Filtering capacity: 1 million of litres (*normal conditions*)
- Installation: on the pumping kit suction
- Automatic degasifier

	Optional	
	- 5 micron paper filtering element spare	660503000



mm (approx.) 435
260
Kg (approx.) 8



DESCRIPTION

CODE

"Y" BRASS FILTERS

- 1/2" brass filter
- 3/4" brass filter
- 1" brass filter
- 1 1/4" brass filter

802701006
802701004
802701003
802701002

Fuel filtering kit trolley



TROLLEY WITH FUEL FILTERING KIT



66120

Equipped with:

- Mobile trolley with two swivel wheels and two fixed tyre wheels and a handle for its easy mobility
- Flow: **150l/min**
- FG-10 filter - filtration: 5 micron - capacity: 10 litres - flow: 210l/min
- BAG-800 self-suction pump, eccentric of adjusting blades with recirculation bypass system, EExe motor and pulley system - flow: 150l/min - motor: 0,74kW 230/400VAC 50Hz 3ph - S1 continuous duty - IP-55 protection - certificate EExe IIB T3 LCIE 92C6073X
- MGE-150 Electronic meter

FG-10M



FG-10M · METALLIC PRESSURE FILTER OF CAPACITY 10 LITRES



66100

- Fuel filter
- Filtration: 5 micron
- Capacity: **10 litres**
- Flow: 210l/min
- Filter cover: Steel
- Filter vessel: Steel
- Inlet / Outlet: F1 1/2" BSP
- Vacuum gauge: -1+9bar
- Manual lower drain valve to empty impurities
- Filtering capacity: 1 million of litres (normal conditions)
- Installation: On the pumping kit suction or delivery



- **Filtering kit trolley and FG-10M optional:**
- 5 micron paper filtering element spare

660503000

Tank filtering kit



TANK FILTERING KIT

TANK FILTERING KIT WITH AG-88 0,74kW 230VAC PUMP

TANK FILTERING KIT WITH BAG-800 1kW 230/400VAC PUMP

66060

66130

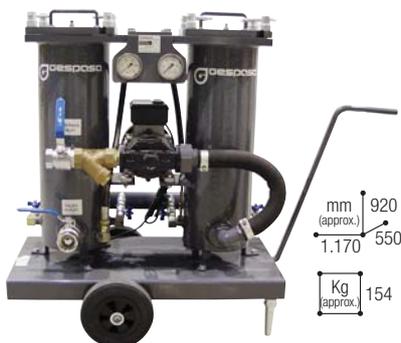
66150

Kits designed for the fuel (diesel, petrol, kerosene and oil) filtering of buried or aerial tanks, getting free of impurities the microfiltered liquid.

The kits are composed of:

- 1 mobile platform
- 2 manual drain valves to eliminate the residual air
- 2 manometers
- 2 outlets for the filtered liquid sampling
- 2 inlets for the connection of compressed air to clean the filters without being disassembled

Tank filtering kit with pump



The filtering kit with diesel pump is also equipped with:

- **AG-88 0,74kW 230VAC 80l/min pump** for the filtered liquid transfer (please, consult the pump features in page 27)
- **BAG-800 1kW 230/400VAC 100-150l/min pump** for the filtered liquid transfer (please, consult the pump features in page 29)



- **Optional**
- 5 micron impact filtering element spare
- 5 micron final filtering element spare

460000006
460000007

DESCRIPTION



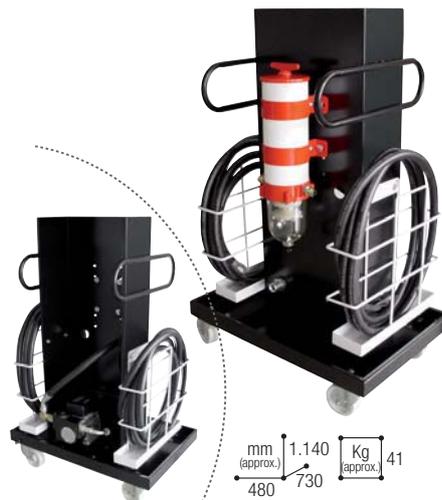
CODE

TANK FILTERING KIT WITH AG-46 PUMP - 25L/MIN

66160

Unit with individual turbine designed for the diesel filtering of buried or aerial tanks up to 1.000 litres, getting free of impurities the microfiltered liquid.

- Flow: **25l/min**
- Filtration of some micronages: 2, 10 and 30 micron (according to the fuel state)
- Spare-part elements with bypass
- Big filtration surface
- Plastic recipient to see the liquid, with drain valve
- AG-46 230VAC self-suction pump (eccentric with self-adjusting blades)
- With recirculation bypass
- Kit suction: 5m
- Delivery: 15m
- Bypass pressure: 2 to 2,5 bar
- Consumption: 1,2 - 2A
- IP-55 protection
- RPM: 3.000rpm
- Easy handling



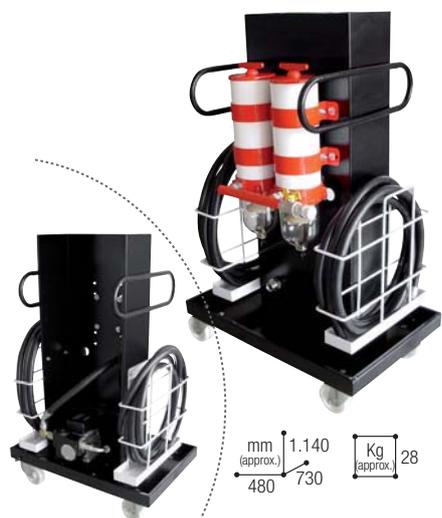
TANK FILTERING KIT WITH AG-46 PUMP - 35L/MIN



66170

Unit with double turbine designed for the diesel filtering of buried or aerial tanks up to 5.000 litres, getting free of impurities the microfiltered liquid.

- Flow: **35l/min**
- Filtration of some micronages: 2, 10 and 30 micron (according to the fuel state)
- Spare-part elements with bypass
- Big filtration surface
- Plastic recipient to see the liquid, with drain valve
- AG-46 230VAC self-suction pump (eccentric with self-adjusting blades)
- With recirculation bypass
- Kit suction: 5m
- Delivery: 15m
- Bypass pressure: 2 to 2,5 bar
- Consumption: 1,2 - 2A
- IP-55 protection
- RPM: 3.000rpm
- Easy handling



- **Optional**
- 2 micron paper filtering element spare-part

661603000

FILTERING VAN - CUSTOMIZED PROJECT

Mobile kit designed for the diesel filtering of aerial or buried tanks up to 5.000 litres, getting a microfiltering of the liquid free of impurities.

It is composed of: tank filtering kit with BAG-800 230/400VAC pump, workbench, compressor, drip tank, pressure washing machine, with entrance ramp.



DESCRIPTION

CODE

MANUAL NOZZLES

PT-60 · MANUAL NOZZLE

60
litres

47010

- Flow: **60l/min**
- Connection F3/4"
- Made of polyamide 6
- Maximum pressure: 2Kg/cm²

PSF-040 · MANUAL NOZZLE

80
litres

47030

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

PE-010 · MANUAL NOZZLE PE-010G · MANUAL NOZZLE

200
litres

47060
47061G

- Flow: **200l/min**
- F1 1/2" connection
- Made of aluminium
- Maximum pressure: 3Kg/cm²
- Trigger fixation

AUTOMATIC NOZZLES

PA-60 · AUTOMATIC NOZZLE

60
litres

47200G

Aluminium body with plastic cover, ergonomic design, 3 position flow regulation and automatic cut.

- Flow: **60l/min**
- F3/4" connection
- Trigger fixation

PA-80 · AUTOMATIC DIESEL NOZZLE PA-80 · AUTOMATIC UNLEADED PETROL NOZZLE

80
litres

47210G
47251

Aluminium body with plastic cover (black for diesel, green for unleaded petrol), ergonomic design, flow regulation with a position as maximum and automatic cut.

- Flow: **80l/min**
- F1" rotary connection (diesel) - black nozzle
- F3/4" or 1" rotary connection (unleaded petrol) - green nozzle
- Trigger fixation

PA-120 · AUTOMATIC NOZZLE

120
litres

47220

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

PA-140 · AUTOMATIC NOZZLE

140
litres

47230G

- Flow: **140l/min**
- F1" connection
- Trigger fixation

PA-250 · AUTOMATIC NOZZLE

250
litres

47240

- Flow: **200l/min**
- M1 1/2" rotary connection
- Trigger fixation

SWIVELS



■ Optional

- MF3/4" rotary swivel
- MF1" rotary swivel
- M3/4" F1" rotary swivel

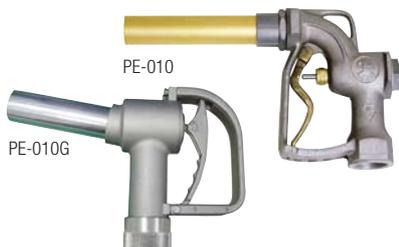
804503007
804503001
804503002



PT-60



PSF-040



PE-010

PE-010G



PA-60

Optional:
Swivel



PA-80 (black)

PA-80 (green)



PA-120

Optional:
Swivel



PA-140



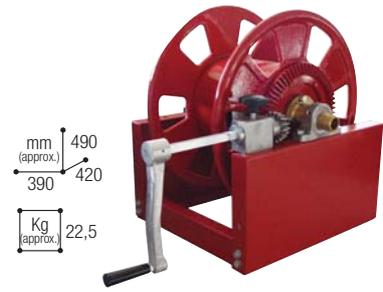
PA-250

DESCRIPTION

- Manual and automatic diesel hose-reels made of painted steel plate
- 3/4" and 1" Hose

CODE

MANUAL HOSE-REEL OF 15M FOR 1" HOSE 807300005



Manual hose-reel

SERIES 5 HOSE-REELS

- Automatic hose-reel without hose (stop built-in)
- Version in painted steel plate
- Output window with PVC rollers

Model	Metres	Diameter	Max. Pressure	Code
5.10.20	10	3/4"	45bar	807303008
5.15.20	15	3/4"	45bar	807303009



SERIES 5 Automatic hose-reel

SERIES 6 HOSE-REELS

- Automatic hose-reel without hose
- Version in painted steel plate

Model	Metres	Diameter	Max. Pressure	Code
6.20.20	20	3/4"	40bar	807303012
6.30.20	30	3/4"	40bar	807303013
6.40.20	40	3/4"	40bar	807303014
6.20.25	20	1"	40bar	807303015
6.30.25	30	1"	40bar	807303016
6.40.25	40	1"	40bar	807303017
6.50.25	50	1"	40bar	807303018
6.20.32	20	1 1/4"	40bar	807303019

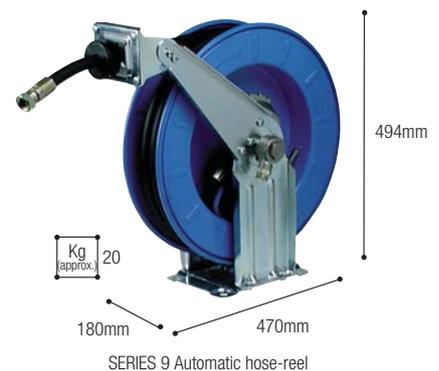


SERIES 6 Automatic hose-reel

SERIES 9 HOSE-REELS

- Automatic hose-reel without hose
- Version in painted steel plate with galvanized parts or in stainless steel
- Variable output window
- Output window with PVC rollers

Model	Metres	Diameter	Max. Pressure	Code
9.20.20	20	3/4"	50bar	807303006
9.20.20/INOX	20	3/4"	50bar	807303007



SERIES 9 Automatic hose-reel

SERIES 10 HOSE-REELS

- Automatic hose-reel without hose (stop built-in)
- Version in painted steel plate with galvanized parts or in stainless steel
- Output window with PVC rollers

Model	Metres	Diameter	Max. Pressure	Code
10.20.20	20	3/4"	45bar	807303010
10.20.20/INOX	20	3/4"	45bar	807303011



SERIES 10 Automatic hose-reel

DESCRIPTION

CODE

14.1. SUCTION AND DELIVERY HOSES

Suction / delivery hose



Elbow hose



Transparent suction hose



Telescopic tube kit



Suction Kit with adapter plug for 1000 litre tank



Suction kit with anti-siphon valve



Gravity kit



DOUBLE LAYER HOSES

■ Antistatic hose Ø16mm double layer, special for diesel	803401004
■ Antistatic green hose Ø16mm double layer, special for unleaded petrol EN1360	803403005
■ Antistatic hose Ø19mm double layer, special for diesel	803401105
■ Antistatic hose Ø21mm double layer, special for diesel	803401005
■ Antistatic hose Ø25mm double layer, special for diesel	803401001
■ Hose Ø25mm double layer special for petrol	803401007
■ Antistatic hose Ø30mm double layer, special for diesel	803403003
■ Hose Ø40mm double layer, special for diesel	803401010



■ **Optional:**
- To put adapters on both ends of the hose

670001007

SYNTHETIC ELBOW HOSES (Diesel submersible)

■ Synthetic elbow hose Ø16mm length 1,30m	803404004
■ Synthetic elbow hose Ø21mm length 1,30m	803404005
■ Synthetic elbow hose Ø21mm length 1,70m	803404006
■ Synthetic elbow hose Ø25mm length 1,70m	803404001

TRANSPARENT SUCTION HOSES

■ Transparent suction hose Ø16mm	803400004
■ Transparent suction hose Ø20mm	803400005
■ Transparent suction hose Ø25mm	803400001
■ Transparent suction hose Ø30mm	803400003
■ Transparent suction hose Ø40mm	803400002

TELESCOPIC TUBE KITS

■ PP M3/4" F1" telescopic tube kit with filter, height 0,98m	35660
■ PP M3/4" F1" telescopic tube kit with filter, height 1,30m	35730
■ PP M3/4" F1" telescopic tube kit with filter, height 1,90m	35800
■ PP M1" F1 1/4" telescopic tube kit with filter, height 0,98m	35630
■ PP M1" F1 1/4" telescopic tube kit with filter, height 1,30m	35740
■ PP M1" F1 1/4" telescopic tube kit with filter, height 1,90m	35790
■ PP M1" F1 1/4" telescopic tube kit with valve and filter, height 0,98m	35850
■ PP M1" F1 1/4" telescopic tube kit with valve and filter, height 1,90m	35840
■ PP M3/4" F1" telescopic tube kit without filter, height 1,90m	35801
■ PP M1" F1 1/4" telescopic tube kit without filter, height 0,98m	35830
■ PP M1" F1 1/4" telescopic tube kit without filter, height 1,90m	35820

METALLIC TUBE SUCTION KIT WITH CHECK VALVE AND FILTER

■ Suction Kit with check valve and filter 1", height 1,35m	35560
■ Suction Kit with check valve and filter 1", height 1,65m	35550
■ Suction Kit with check valve and filter 1", height 1,70m	35580
■ Suction Kit with check valve and filter 1", height 1,90m	35570
■ Suction Kit with check valve and filter 1 1/4", height 1,65m	35520
■ Suction Kit with check valve and filter 1 1/4", height 1,90m	35530
■ Suction Kit with check valve and filter 1 1/4", height 2,30m	35540
■ Suction Kit with ball valve, filter 1 1/4" and anti-siphon valve, height 1,65m	35522
■ Suction Kit with ball valve, filter 1 1/4" and anti-siphon valve, height 1,90m	35532
■ Suction Kit with check valve, filter 1" and adapter plug for tank of 1.000 litres, height 1m	35810

METALLIC TUBE SUCTION KIT WITH FILTER

■ Suction Kit with filter 3/4", height 1,40m	35690
■ Suction Kit with filter 3/4", height 1,70m	35670
■ Suction Kit with filter 1", height 1,40m	35700
■ Suction Kit with filter 1", height 1,70m	35680

GRAVITY TANK KIT with MF1" ball valve, FUP-1 FF1" filter, 5m delivery hose Ø25mm and PSF-040 manual nozzle

35620

DESCRIPTION CODE

14.2. FLANGES

M1" SHORT UNION FLANGE KIT M1" LONG UNION FLANGE KIT

800003024
800003027

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



■ **Optional**
- STAINLESS filter-sieve of 352 micron Ø33mm
(for the flange inner)

460000003

It is optionally supplied with STAINLESS filter-sieve of 352 micron to avoid the entering of impurities in the meter inner.

F1" ALUMINIUM FLANGE KIT

800003022

Special aluminium flange for the quick coupling of the pump and/or the tube in any type of installation.



14.3. EXTENSION BATTERY CABLE BOX

EXTENSION BATTERY CABLE BOX

801101110

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



14.4. SUPPORTS AND METALLIC BASES

SUPPLY KITS BASES

Sheet plate bases to put the pumping kits or to fix on the wall or on any surface. Finish in brilliant epoxid paint in RAL 3020 red colour. It has a nozzle hanger with rubber protection.

Model	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	
BASE Nº 3	320	260	527	6	800400001
BASE Nº 4	400	300	325	6	800400011



Polyethene tank platform

POLYTHENE TANK PLATFORM POLYTHENE GALVANIZED TANK PLATFORM

800400002
800400102

Sheet platform to install the supply kits on the tanks. Finish with brilliant epoxid paint of RAL 9010 white colour or galvanized sheet.



Polyethene galvanized tank platform



DESCRIPTION

CODE

UNIVERSAL SUPPORT

800404059

Zinc-plated sheet support to fix the pumping kits in the polypropylene tanks of 1.000 litres "with metallic framework" and the steel double wall tanks. It can also be fixed on the wall. It is supplied with 4 Ø8x50mm metallic stoppers. It has a nozzle hanger with rubber protection and drip pan.



**GK-7 BASE PEDESTAL
MINI MECHANICAL OR ELECTRONIC BASE PEDESTAL
MINI GK-7 BASE PEDESTAL**

800400013
800400014
800400015

Hexagonal sheet pedestal of 1m height for the controller or supply kits assembly.



UNIVERSAL ZINC-PLATING HOOK SET

800404049

Support to pick up the hose. It is adaptable to all type of barrels and tanks.

Universal hook



Nozzle hanger with and without micro-switch

NOZZLE HANGER

Nozzle hanger made of PA+fibreglass adaptable to different models of automatic nozzles. It also available with micro-switch to make the automatic stop of the pump when the nozzle is hung.

- PA nozzle hanger
- PA nozzle hanger + Micro-switch
- PA nozzle hanger + EExe Micro-switch

280403001
280403101
280403201

DESCRIPTION

CODE

14.5. ENCLOSURES

AS - ENCLOSURES FOR EXTERNAL USE

- Made of 1,5mm sheet
- Opening under the door to pass the hose
- Key locking
- Finish in brilliant epoxid paint with RAL 3020 red colour

Model	Length (mm)	Width (mm)	Height (mm)	
AS-1	470	265	1000	50000
AS-2	470	265	500	51000
AS-3	450	230	400	52000
AS-3 INOX	445	230	400	53000
AS-5B	620	300	580	55000

*Other size under order



AS-5P - ENCLOSURE FOR EXTERNAL USE WITH NOZZLE HANGER AS-5P - ENCLOSURE FOR EXTERNAL USE WITH NOZZLE HANGER AND MICRO-SWITCH

55070
55080

- Made of 1,5mm steel plate
 - Coating paint of high resistance and non-corrosive
 - Black colour
 - Opening under the door to pass the hose
 - Key or padlock locking (*the padlock is not included*)
 - Pump support with anti-vibration system
 - Nozzle hanger made of PA+fibreglass adaptable to different models of automatic nozzles
- **Micro-switch in the nozzle hanger** to make the automatic stop of the pump when the supply nozzle is hung

AS-5B



The enclosures have enough capacity to install on its inside the FG-2 filter, pumps and meters of 20-100 l/min in different positions.

AS-5P



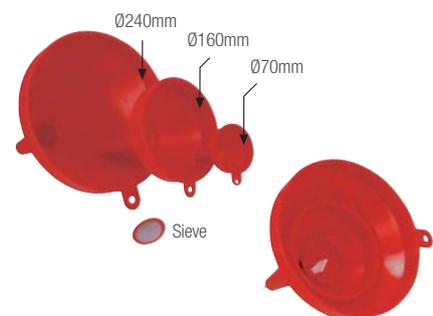
*The nozzle is not included

14.6. FUNNELS

FUNNELS

Made of polypropylene, they are specially suitable for the hydrocarbon and chemical products manipulation (please, consult other liquids).

■ In plastic Ø240mm	460000000
■ In plastic Ø160mm	460500000
■ In plastic Ø70mm	460100000
■ Funnel sieve (Ø240 and 160mm stainless mesh) of 352 micron Ø52mm	460000001
■ PIN funnel union (to joint 3 funnels)	469000000
■ 3 funnel set (with different diameter and union PIN)	460700000



3 funnel set

DESCRIPTION

CODE

WHITE POLYTHENE SIMPLE WALL TANKS



- They are suitable to store petroleum products such as diesel, mineral and vegetable oils, waste oil, and also not drinking water, ...
- Polythene tanks manufactured according to the rules UNE 53.432, that regulates the specifications, features and testings of the high density polythene tanks destined to store petroleum liquid products. In addition these tanks comply with the provisions established on the Spanish I.T.Cs IP-03 (Installations of storage for the consumption in the own installation) and IP-04 (Petroleum Installations for the supply to vehicles)
- Made through a process of blowing extrusion of high density polythene that gives: unalterableness (*there is no risk of internal or external corrosion*), impact strength and temperature change resistance

	Nominal Capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Approx. weight (Kg)	
■ 500 Variobloc	500	780	780	1.095	22,5	38650
■ 700 Variobloc	700	780	780	1.485	28,5	38660
■ 700	700	1.190	660	1.240	31,5	38670
■ 1000E	1000	1.190	660	1.810	39,3	38680
■ 1000	1000	1.650	720	1.260	36,1	38590
■ 1500	1500	1.650	720	1.750	57	38600
■ 2000	2000	2.180	720	1.780	81,4	38610
■ 2500	2500	2.180	885	1.730	96	38620
■ 3000	3000	2.460	880	1.760	114	38750

GREEN POLYTHENE TANKS WITH INTERIOR BASIN BUILT-IN



- They are suitable to store petroleum products such as diesel, mineral and vegetable oils, waste oil, and also not drinking water, ...
- Homologated polythene tank with interior basin built-in
- Made of high density polythene and high molecular weight
- They can be installed in the exterior because its green casing, with a special treatment against the "ultraviolet rays", makes them resistant to a prolonged solar irradiation exposure without suffering the minimum damage
- The exterior casing makes the function of retention container of 100% capacity in the event of an inside tank leakage and it also adds a high tank security.

	Nominal Capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Approx. weight (Kg)	
■ 700	700	1.280	690	1.240	52	38740
■ 1000	1000	1.740	750	1.275	73	38630
■ 1500	1500	1.740	750	1.765	96	38640
■ 2000	2000	2.290	780	1.810	150	38730

WHITE POLYTHENE TANKS WITH INTERIOR BASIN BUILT-IN



- They are suitable to store petroleum products such as diesel, mineral and vegetable oils, waste oil, and also not drinking water, ...
- Homologated white polythene tank with interior basin built-in
- It is supplied with an alarm that detects any liquid presence in the leaktight retention container
- Polythene tanks manufactured according to the rules UNE 53.432, that regulates the specifications, features and testings of the high density polythene tanks destined to store petroleum liquid products. In addition these tanks comply with the provisions established on the Spanish I.T.Cs IP-03 (Installations of storage for the consumption in the own installation) and IP-04 (Petroleum Installations for the supply to vehicles)
- Equipped with a light retention container with sealing warranty to the environment protection
- Self-porous inner tank
- Fire protection

	Nominal Capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Approx. weight (Kg)	
■ 700	700	1.280	690	1.240	52	38710
■ 1000	1000	1.280	690	1.810	72	38720

DESCRIPTION

CODE

CYLINDRICAL CARBON STEEL TANKS

- 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

CAPACITIES IN SIMPLE AND DOUBLE WALL:

Tanks of capacities: 1.000, 2.000, 3.000, 5.000, 10.000, 15.000, 20.000, 30.000, 40.000 and 50.000 litres

RETENTION CONTAINERS

- Retention containers of obligatory use for all the fuel storage installations with simple wall tanks with capacity higher than 1.000 litres, according to "Real Decreto 1523/99 of October 1st, 1999, modifying the "Reglamento de Instalaciones Petrolíferas" (Petroleum Installation Regulation) and "las Instrucciones Técnicas Complementarias MI-IP03 y MI-IP04" (MI-IP03 and MI-IP04 Technical Complementary Instructions).



	Top size (mm)		Bottom size (mm)		Height (mm) E	Approx. weight (Kg)	
	A	B	C	D			
■ Cubeto 1500	1.740	750	1.740	750	1.450	40	385905018

Made of green polyethylene

■ Cubeto 2000	2.360	900	2.260	800	1.050	44	385905019
■ Cubeto 2500	2.360	1.110	2.260	1.110	1.050	56	385905020

Made of polyester

SPILL TRAYS

- Leaktight recipients 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 0,8mm thickness, with non-corrosive treatment



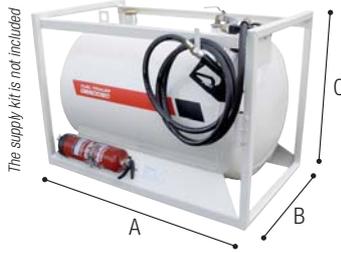
	Length (mm)	Width (mm)	Height (mm)	Approx. weight (Kg)	Compatibility	
■ Tray A	1.680	750	160	12,00	★	385905015
■ Tray B	1.220	690	160	10,00		385905016
■ Tray C	810	810	160	8,50		385905017

★ The tray compatibility depends on the tank manufacturer

DESCRIPTION

CODE

GRG STEEL TANKS



- Fuel transport units specially suitable for the fuel transport of heavy and agricultural machinery, excavations, ... These are also suitable to be installed in vans, "pick-up", trucks, etc.
- They have built-in fire extinguisher, venting valve and FUP-1 filter
- 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.
- The metallic structure that covers these cylindrical units varies according to its capacity.

* The supply kit could be customized according to the customers' requirements

Cylindrical (without structure)

	Capacity (litres)	Size AxBxC (approx.) (mm)	Weight (approx.) (Kg)
■ GRG 250	250	785x680x800	75
■ GRG 350	350	1170x680x790	95
■ GRG 460	460	1350x780x940	125
■ GRG 920	920	1700x930x1090	175

35320
35330
35340
35350

Cylindrical (with structure)

	Capacity (litres)	Size AxBxC (approx.) (mm)	Weight (approx.) (Kg)
■ GRG 350	365	Ø650x1250	65
■ GRG 460	500	Ø750x1270	75
■ GRG 920	960	Ø950x1500	120

35360
35370
35380

RECTANGULAR



- GRG 190
- GRG 320
- GRG 500
- GRG 980

	Capacity (litres)	Size AxBxC (approx.) (mm)	Weight (approx.) (Kg)
■ GRG 190	190	930x430x700	63
■ GRG 320	320	1030x625x700	81
■ GRG 500	500	1030x630x1000	106
■ GRG 980	980	1270x1030x950	174

35220
35130
35110
35120

BASIC TRAILER - Up to 500 litres - without brake

35280

BASIC TRAILER - Up to 500 litres - with brake

35290

- 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".

* The supply kit could be customized according to the customers' requirements

FUEL TRAILER - Up to 500 litres

35300

FUEL BOX TRAILER - Up to 920 litres

35310

- Cased trailers of 1 or 2 tip-up doors through hydraulic cylinders and security lock, completely galvanized, THE FUEL BOX of 1350Kg PMA, with independent charging space for oils, greasers, tools, accessories, etc., with brake, 155 R13" big wheels (FUEL) - 185 R13" (FUEL BOX) big wheels and "jockey" move wheel.

- These trailers have to be registered and have an own insurance.

* The supply kit could be customized according to the customer's requirements

RECTANGULAR DRINKING WATER TANKS

- The drinking water tanks are made of high density polythene through the blow extrusion system. The raw material and the additives used on the tank manufacture comply with the required requests by the Spanish laws for the products destined to come into contact with food and drinking water.

- The tanks have a green pigment that makes them resistant to solar irradiation. This green pigment gives an opacity to the tank avoiding the algae forming.

- They are manufactured in one piece, without weldings, which assure an excellent resistance and dimensional stability.

- Impact resistance

- The drinking water tanks are equipped with:

- 1 manhole of Ø380mm
- 1 bottom outlet of 2"

Capacity (litres)	Length(mm)	Width (mm)	Height (mm)	Manhole (mm)	Weight (approx.) (Kg)
1100	1160	730	1670	Ø380	47
2000	2280	730	1670	Ø380	82
3000	2460	880	1760	Ø380	114

38150
38140
38180

*The supply kit and the tank are not included



*The supply kit and the tank are not included



DESCRIPTION

CODE

CYLINDRICAL DRINKING WATER TANKS

- Made of high density polythene with green pigment that makes them resistant to the solar irradiation. The raw material and the additives used on the tank manufacture comply with the required requests by the Spanish laws for the products destined to come into contact with food and drinking water
- The green pigment gives an opacity to the tank, avoiding the algae forming
- These are made of an only piece, without weldings. This guarantees an excellent resistance and a high dimensional stability
- It has built-in a threaded cover with register access
- Light weight with handles for its easy transportation
- They are supplied with bottom shutoff valve



Capacity (litres)	Diameter (mm)	Total height (mm)	Access covers (mm)	
1000	1160	1220	Ø1160	38190
430	750	1080	Ø751	38200
230	640	950	Ø640	38210

STEEL TANKS

- These cans are specially suitable for the diesel transport or storage to supply heavy and agricultural machinery, excavations, ...
- Made of galvanized painted steel
- Extractable spout
- Air vent valve
- Triple handle
- Ergonomic bottom

	Capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	
■ Tanket 10	10	350	170	285	2,85	38270
■ Tanket 20	20	350	170	483	3,75	38260



■ Middle handle to one-can transport for one-man



■ Outside handles to one-can transport by two men. The outside handles are also suitable to two-can transport by one-man. Its ergonomic system separates the can of the legs.



- This can is specially suitable for putting it on the vehicle boot.
- Made of galvanized painted steel

	Capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	
■ Tanket 3	3	300	170	120	0,85	38290



DESCRIPTION

CODE

- 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).

KIT-3000 DOUBLE WALL**KIT-5000 DOUBLE WALL****KIT-10.000 DOUBLE WALL****KIT-15.000 DOUBLE WALL****Composed of:**

1. Double wall tank
 - Double wall steel tank of horizontal cylindrical shaft for its aerial installation, manufactured under UNE rules:
 - UNE 62.351-2** capacity up to 3.000 litres
 - UNE 62.350-2** capacity higher than 3.000 litres
 - Equipped with: welded support legs, manifold in manhole and diver tube
 - Air vent valve set 400mm
 - 1" suction set with foot valve with filter and cut valve
 - V_k-80 3" brass charging hole with chain in the cover
 - External level slide
 - Mechanical valve that limits the overfilling. It is installed on tanks upper than 3.000 litres
 - Pressure relief valve
2. Chassis against impacts
 - Metallic structure that protects against impacts the tank, it has a stair to access to the manhole with non-slip flat and security rail (*in tanks upper than 3.000 litres*)
 - Fire extinguisher
 - Support to hang the hose

Optional accessories

- Supply kit
- Possibility of assembling supply controllers or fuel supply kits instead of pumping kits
- FG-2 filter (5 micron with water decanter)
- Adjustable anti-siphon valve



*It does not include supply kit (optional)

Remarks:

- This kit has to be subjected to the current Regulations about Petrol Installations and has to be entered in the corresponding Petrol Installations Register, in the Industry Delegation of each province.
- This kit must be used according to what its instruction manual specifies.

DESCRIPTION

CODE

BUNG ADAPTERS

Plastic bung adapters with two types of threads: M-64x4 upper thread and 2" BSP bottom thread

■ 2" x T1/2" bung adapter	805200003
■ 2" x T3/4" bung adapter	805200004
■ 2" x T1" bung adapter	805200006
■ 2" x T1 1/4" bung adapter	805200005
■ 2" x Ø21 bung adapter	805200001
■ 2" x Ø25 bung adapter	805200002
■ 2" x Ø28 bung adapter	805200007



Bung adapter

FIRE CUTOFF VALVES

■ 1 1/4" brass fire cutoff valve	801900002
■ 1 1/2" brass fire cutoff valve	801900001
■ T 2" fire cutoff valve	801900004



Breakaway valve

T breakaway

CHARGING HOLES

■ F2" charging hole	800600001
■ F3" charging hole	800600002
■ M3" charging hole plug	800602001



Charging hole

Plug

1 1/2" LEVEL INDICATOR

801901001

- Fuel level indicator in tanks, suitable for aerial tanks with maximum diameter of 2 meters
- Quick and easy reading through the clock, expressed in centimetres
- The indicator has built-in a floater that it is put on the tank. This floater is joined with the level indicator clock through a cable.
- M1 1/2" thread



Level indicator

**GESPASA V5 OVERFILLING VALVE
BASIC OVERFILLING VALVE**801904013
801904006

- 2 phase shut-off valves to avoid the overfilling or spill of buried and aerial tanks with capacity upper than 3.000 litres. They are automatically closed when the product level reaches the 92% of its capacity. The bottom valve diameter is suitable to fit 4" discharging tubes.



GESPASA V5

BASIC

17 TANK ACCESSORIES



Acoustic overfilling alarm



Anti-siphon valve

DESCRIPTION

CODE

ACOUSTIC OVERFILLING ALARM

801904008

- 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.
- Its installation is obligated on aerial tanks of capacity superior than 3.000 litres according to the "Reglamento de Instalaciones Petrolíferas" (Petroleum Installation Regulation) and "las Instrucciones Técnicas Complementarias MI-IP03 y MI-IP04" (MI-IP03 and MI-IP04 Technical Complementary Instructions).

ADJUSTABLE ANTI-SIPHON VALVES

- 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).

- 1" adjustable anti-siphon valve
- 1 1/4" adjustable anti-siphon valve
- 1 1/2" adjustable anti-siphon valve
- 2" adjustable anti-siphon valve

805604010
805604011
805604028
805604013

18 INSTALLATION ACCESSORIES

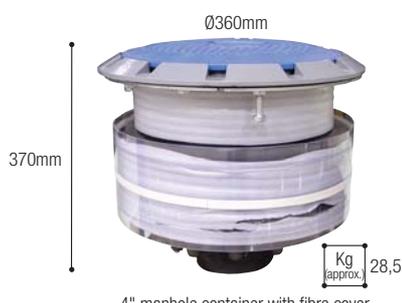
18.1. COLLECTION CONTAINERS



4" manhole container with steel cover



4" manhole container with steel cover



4" manhole container with fibre cover

4" SPILL CONTAINER WITH Ø360mm STEEL COVER 4" SPILL CONTAINER WITH Ø410mm STEEL COVER

808313004
808313005

4" SPILL CONTAINER WITH Ø360mm FIBRE COVER

808313001G

- 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 lands.
- It allows to drain the container product into the buried tank
- Capacity: 19 litres

Materials:

- Cover: 4" spill container with steel cover: cast iron
4" spill container with fibre cover: Polyamide with fibreglass
- Mounting ring: Cast iron
- Bellow: Polythene
- Base: Compound fiber
- Clamps: Stainless steel
- Seals: Buna-N

DESCRIPTION

CODE

MANHOLE CONTAINER PLUS MANHOLE CONTAINER

808313003
808313006

- This fuel tank chest allows to install pumps, valves and other type of equipment that could be necessary for the connection of the tank with the supply kit
- It is composed of two pieces: base and neck, joined by a ring that assures its total sealing
- Optionally it has flexible bulkhead fitting to make easy the cabling pass



Manhole container

18.2. «BREAKAWAY» VALVES

The **breakaway valves** are designed to be installed in fuel supply hoses and they will be separated when there was a strong pull. The double seat valve automatically stops the fuel flow, limiting any fuel leak and protecting the supply kit.

BREAKAWAY VALVES

- Body: aluminium
- Main seals: viton
- Main spring: stainless steel
- Guide and poppet: POM
- Protective sleeve: PVC

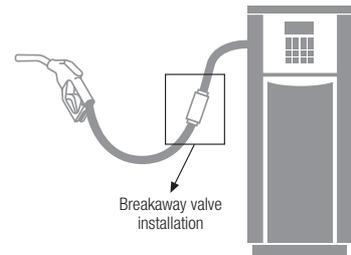
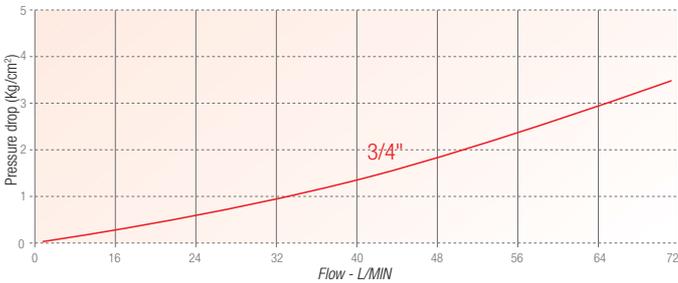
The valve is designed to be replaced after the separation

	Connection Threads	Flow	Weight	
■ 802	BSP 3/4" x BSP 3/4"	0-60l/min	230gr	805604016
■ 804	BSP 1" x BSP 1"	0-120l/min	320gr	805604015



3/4" breakaway valve
Net weight: 230 gr

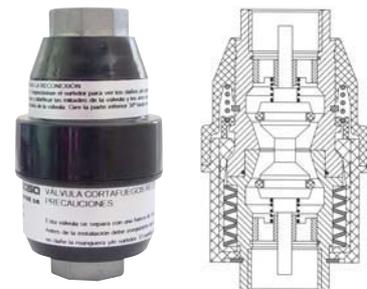
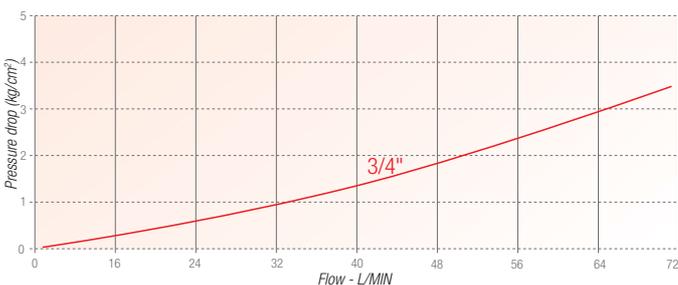
1" breakaway valve
Net weight: 320 gr



BREAKAWAY RECONNECTION VALVES

- Body: die cast zinc
- Main seals: Viton
- Main spring: stainless steel
- Guide and poppet: POM
- Protective sleeve: PA66

	Connection Threads	Flow	Weight	
■ 3/4"	BSP 3/4"	0-60l/min	530gr	805604019
■ 1"	BSP 1"	0-120l/min	600gr	805604021



3/4" breakaway reconnection valve
Net weight: 530 gr



WARNING: IT IS ADVISABLE TO REPLACE A NEW BREAKAWAY RECONNECTION VALVE WHEN THE PULL FORCE IS LOWER THAN 80KG, AFTER MANY RECONNECTIONS

DESCRIPTION

CODE

18.3. ANGLE CHECK VALVES



ANGLE CHECK VALVES

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

- **BSP 1 1/2" angle check valve**
- **BSP 2" angle check valve**

805603009
805605002

18.4. COUPLINGS AND FERRULES

Plastic coupling



- **PP M3/4" x 25 PLASTIC COUPLING**
- **PP M1" x 25 PLASTIC COUPLING**

804501002
804501001

Ferrule



- **28x41,5mm FERRULE**
- **37x51mm FERRULE**

801200011
801200012

Adapter



- **M3/4" x 19 BRASS ADAPTER**
- **M1" x 19 BRASS ADAPTER**
- **M1" x 25 BRASS ADAPTER**

804500012
804500021
804500001

18.5. «BREAKAWAY» VALVE FOR SUPPLY KIT WITH SUBMERSIBLE PUMP

MF 1 1/2" «BREAKAWAY» VALVE

805603010



mm (approx.) 170
115 120
Kg (approx.) 3

- The «breakaway» (emergency shut-off) valve is obligatory in the installation of fuel supply kits that are equipped with a submersible pump
- This valve is installed on the fuel supply lines to minimize hazards associated with accidental collision or fire.
- This valve stops the fuel flow.
- When this valve works, this is separated in two halves, closing the fuel piping

Materials:

- Material: cast iron
- Joints: Buna-N

Technical data:

- Flow: 0-120 l/min
- Operation pressure: 2bar

DESCRIPTION

CODE

18.6. HYDROCARBON SEPARATORS

HYDROCARBON SEPARATOR WITH DECANTER AND COALESCING 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 coalescing 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 European Regulation prEN858, separators of Class I (spill < 5mg/l).

Features:

- Retention capacity: 10 litres per l/s of nominal flow
- Treatment capacity: 1 to 15 l/s
- Decanter volume: 200 litres per l/s of nominal flow
- Output: 99,88% (lower than 5 mg/l) for a density of 0,85

	Flow (l/s)	Weight (Kg)	Height (mm)	Ø Diameter (mm)	Decanter volume (litres)	Separator volume (litres)	
■ SHDOC2-1-03	3	130	1170	1600	656	380	801905003
■ SHDOC2-1-06	6	225	1500	1930	1275	500	801905004
■ SHDOC2-1-08	8	245	1780	1930	1730	700	801905005
■ SHDOC2-1-10	10	305	1580	2400	2010	1030	801905006
■ SHDOC2-1-15	15	340	1930	2400	3020	1030	801905007



	Flow (l/s)	Weight (Kg)	Height (mm)	Width (mm)	Length (mm)	
■ SH2/6643/01	1	67	970	760	1190	801905018
■ SH2/6643/03	3	87	1280	760	1320	801905019
■ SH2/6643/06	6	145	1580	850	1910	801905020
■ SH2/6643/08	8	205	1630	940	2160	801905021
■ SH2/6643/10	10	238	1630	940	2400	801905022
■ SH2/6643/15	15	358	1900	1540	2340	801905023



DECANTERS / SAND TRAPS

	Weight (Kg)	Height (mm)	Diameter (mm)	Volume (litres)	
■ DB2/1000	33	1360	1160	1000	801905009
■ DB2/1500	52	1220	1550	1500	801905010
■ DB2/2000	62	1500	1550	2000	801905011
■ DB2/3000	99	1500	1930	3000	801905012
■ DB2/4000	129	1840	1930	4000	801905013
■ DB2/5000	149	2180	1930	5000	801905014
■ DB2/6000	180	1880	2400	6000	801905015
■ DB2/8000	340	2450	2400	8000	801905016
■ DB2/10000	350	2910	2400	10000	801905017

SAMPLE CATCH BASIN

808313002

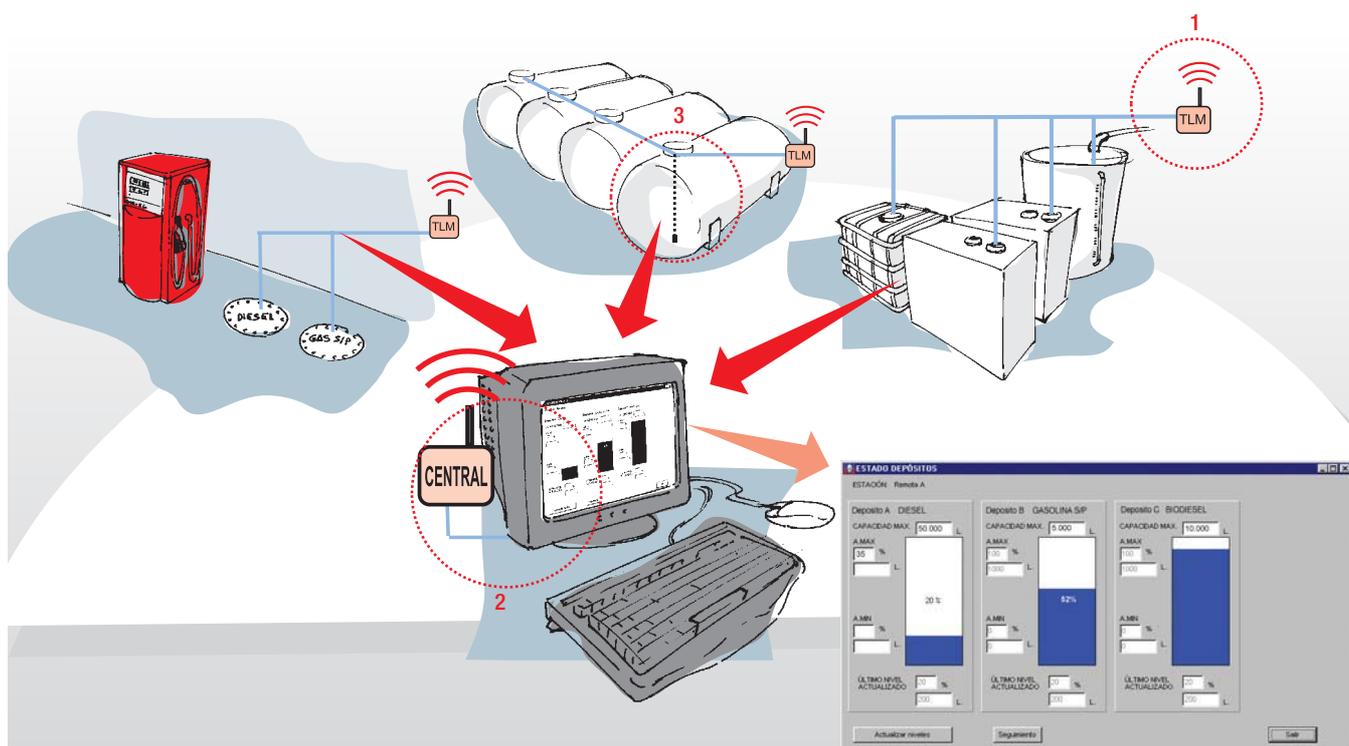
- The sample container is an equipment that allows to pick up samples from an effluent in the inlet and/or outlet of a depuration system.
- This container allows to analyse the contamination level of the effluents and control the output of the depuration kit.
- Made of polyethylene, anticorrosion



Sample catch basin

DESCRIPTION

CODE



- Easy computer program
- Tank and customer data base

TANK STOCK CONTROL

■ General features:

- Automatic messages that inform about the level in programmed days. 5 days programmed at week
- Tank stock request at any moment
- Communication with the tanks through a central computer connected to the CENTRAL PC MODEM
- Programmed alarm levels:
 - 1 minimum level and 1 maximum level (we will know when the tank has been filled)
- The station sends a message to the CENTRAL PC when the tank arrives at a programmed level
- Unlimited tank and station number to be controlled
- Quick and easy software
- Unlimited distance
- Supply: 230VAC
- Measuring accuracy: 1%
- The error margin will vary according to the tank measurements entered in the program

■ Software features:

The software allows to:

- enter with secret key
- automatically receive the tank levels in the programmed days in the PC
- automatically receive the alarm signal of any tank in the PC
- configurate two alarm levels
- Define the tank geometry
- Define the tank data:
 - Customer
 - Address
 - Contacting data
 - Tank product
- Consult the levels of any station at any moment

Composed of:

- (1) TLM electric control frame of 4 tanks (up to 4 probes per modem)
- (2) PC modem set + TLM program
- (3) TLM tank probe

25700
25701
257009000



WE ARE MAKING BUDGETS AND INSTALLATIONS AT YOUR SIZE

DESCRIPTION

CODE

The extractors-decontaminators are suitable for the suction and total cleaning of the bottoms, both liquid and solid impurities, in all types of over and buried tanks. They point up because of the quick separation of the suctioned liquid by pressurization and decanting, returning to the same tank the clean liquid and the polluted liquid on the authorized tanks.

It is also designed for emptying the own consumption tanks that could have water, mud or diesel, so as the vehicle tanks that during the refuelling you would have put the wrong fuel or have filled more litres than you want.

LG-84 · ELECTRIC EXTRACTOR-DECONTAMINATOR 48000

Technical data:

- Motor: 0,25kW with IP-55 protection
- Voltage: 230VAC
- Consumption: 1,2-2A
- Pressure / Depression: +0,9/-0,7bar
- Flow: 35l/min
- R.P.M.: 3000rpm
- Maximum recipient capacity: 60 litres
- Maximum admissible capacity: 50 litres
- It is suitable for diesel

Equipped with:

Vacuum gauge -1 +3bar; FF3/4" ball tap; level float (overfilling security); little stainless grid window; fire cutoff valve; 5,5m transparent suction/evacuation tube Ø20mm; 0,75m transparent evacuation tube Ø20mm; 0,75m galvanized metallic tube 1/2" Ø20mm; 1,5m tank extraction probe Ø12x9mm; 1,5m tank extraction probe Ø8x6mm; back wheels

***IT IS NOT SUITABLE FOR PETROL OR EXPLOSIVE LIQUIDS IN ENVIRONMENTS BECAUSE OF ITS FEATURES YOU NEED AN EXPLOSIONPROOF KIT.**



mm (approx) 865 / 475, Kg (approx) 42,5



LGN-97 · PNEUMATIC EXTRACTOR-DECONTAMINATOR 48030

- It allows a tank retention in vacuum to suction 50 litres, with a suction capacity of 6m
- In its bottom part it has a drain valve (ball valve) to empty and analyze the liquid
- Extractor-decontaminator prepared with 2 positions of probe extraction
- It allows the emptying / pressure conservation in its inner to suction/empty where there is no air inlet
- It is suitable for diesel and petrol

Technical data:

Extraction system based on the depression creation in the tank inner (Ventury system) (-0,8bar); Emptying system at pressure (+0,9bar); sealed security valve, tared at +1,5bar; sealed valve that regulates the air inlet, tared at 0,9bar; it has connection to air hose; minimum pressure: 6bar

Equipped with:

Vacuum gauge -1 +3bar; level indicator; tank for the extracted fuel; transparent vessel; 5,5m transparent hose probe with metallic galvanized lance 1/2"; 0,75m transparent evacuation hose Ø20mm; 1,5m tank extraction probe Ø12mm; 1,5m tank extraction probe Ø8mm; wheels for getting easy its motion

The LGN-97 pneumatic extractor-decontaminador complies with the rules of kits at pressure, Royal Decree 769/1999 of the Directive 97/23/EC, and it is suitable for the handling, suction and delivery of the hydrocarbon, petrol, unleaded petrol, biodiesel, oil. It can operate in Hazardous Atmosphere Zones; 0,1 and 2 with certificate for the EC regulations.

Diesel Petrol
LGN-97



mm (approx) 1.230 / 530, Kg (approx) 52



Optional

- Water paste tube - water level indicator
- 5,5m transparent hose suction probe + lance
- Car probe
- Drain probe
- Air outlet tube adapter (service station)

807613001
480006002
480006001
480006003
480105010



LGN-200



mm (approx.) 1.900
950 Kg (approx.) 135

DESCRIPTION

CODE

LGN-200 - MULTIUSE PNEUMATIC EXTRACTOR-DECONTAMINATOR

48020

- It is designed for making the supply and/or the extraction of the liquids derived from petroleum meanwhile it is making a filtering. It must not be used for the supply and/or the extraction of another type of liquids.
- It makes the liquid transfer, either through a supply kit controlled by a meter or through a lower valve without making any measurement.
- Extractor-decontaminator prepared for 2 extraction positions by probe.
- It allows the vacuum / pressure conservation in its inner to extract/empty where there is not air inlet.

Technical data:

Extraction system based on the depression creation in the tank inner (Ventury system) (-0,8bar); emptying system at pressure (0,45bar); sealed security valve, tared at 0,5bar; sealed valve that regulates the air inlet, tared at 0,9bar; with air hose connection; 5 micron water-repellent paper filter; minimum pressure: 6bar

Equipped with:

Vacuum gauge -1 +3bar; 200 litre extracted fuel tank; transparent vessel of 10 litre capacity; lower valve for the total emptying of the tank; filling level indicator; MGE-40 electronic meter; PA-60 automatic nozzle, 2 extraction probes Ø8mm of 1,5m and 2 extraction probes Ø12mm of 1,5m; 4m transparent hose Ø20mm; pneumatic wheels that allow its motion; 5,5m transparent hose suction probe + lance



■ **Optional**

- Water paste tube - water level indicator
- 5,5m transparent hose suction probe + lance
- Car probe
- Drain probe
- Air outlet tube adapter (service station)

807613001
480006002
480006001
480006003
480105010

VISUAL OPERATION GUIDE



■ Connect to air



■ Reach the exact pressure



■ Close the air valve and move the tank-cleaner till the container



■ Open the container. Remove cap of the tanks.



■ Put the suction probe up to the tank bottom.



■ Open the valve. The tank-cleaner is suctioning the impurities of the tank bottom.

DESCRIPTION

CODE

SIMPLE PRESSURE GROUPS

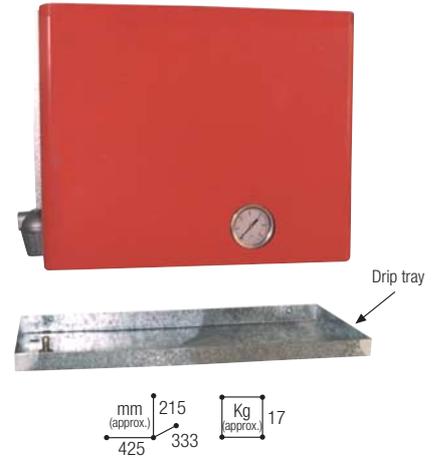
- Pressure diesel groups equipped with self-suction gear pumps with built-in security system
- Security system that stops the group in the event of an air inlet, fuel lack or leakage
- Double action pressure switch (work + security)
- Built-in security valve by overpressure. This cancels the breaking possibility because of the pumps
- These groups are cased and they have a metallic drip tray
- Filter in the suction
- Quick shutoff valve in the delivery
- Maximum suction height: 7m with foot valve
- IP-55 protection

The Simple Groups have also built-in:

- Vacuum gauge that shows if there is any trouble on the suction circuit
- Security valve with conducted escape, with independence of that the pump has built-in

	Flow	Power	Connection	Voltage	Pressure	
■ GESPOIL-30	30l/h	58W	3/8"	230VAC M	1-6bar	24210
■ GESPOIL-70	70l/h	58W	3/8"	230VAC M	1-6bar	24220

SIMPLE GESPOIL



DOUBLE PRESSURE GROUPS

- Pressure diesel groups equipped with self-suction gear pumps with built-in security system
- Security system that stops the group in the event of an air inlet, fuel lack or leakage
- Double action pressure switch (work + security)
- Built-in security valve by overpressure. This cancels the breaking possibility because of the pumps
- These groups are cased and they have a metallic drip pan
- Filter in the suction
- Quick shutoff valve in the delivery
- Maximum suction height: 7m with foot valve
- IP-55 protection

The Double Groups have also built-in:

- Vacuum gauge that shows if there is any trouble on the suction circuit
- Electric control frame with manual selector, with pump alternation and total electric protection
- Security valve with conducted escape, with independence of that the pump has built-in

	Flow	Power	Connection	Voltage	Pressure	
■ GESPOIL-100	100l/h	58W	3/8"	230VAC M	1-6bar	24230
■ GESPOIL-300	300l/h	0,25kW	3/8"	230VAC M	1-10bar	24240
■ GESPOIL-500	500l/h	0,37kW	3/4"	230/400VAC M	1-10bar	24250

DOUBLE GESPOIL



TOT COMERCIAL, S.A. declares that the PRESSURE DIESEL GROUPS comply with the general requirements as regards the operation security in accordance with the Community Guidelines 89/392, 73/23, 89/366 and their subsequent modifications so as the Royal Decree 1427/1997, of September 15th, 1997, for which is approved the MHP 03 Complementary Technical Instruction "Oil Installation for own consumption", being the motor protection IP-55, as IEC 34-5, DIN VDE 0530 part 5 and EN-60034-5.

SUMMARY OF THE MI-IP04 TECHNICAL INSTRUCTION (Regulation)

1. INTRODUCTION

Field of use:

- Installations for the fuel and/or liquid fuel vehicle supply

2. STORAGE TANKS

TANKS AND PIPES

- Made according to UNE regulations specified on the R.D. 1523/99

3. BURIED INSTALLATIONS

- When the **class B products** (petrol) were stored.
- When products of **two or more classes were stored and one of this was of class B.**
- When **the installations supplied to vehicles that are not property of the installation holder or there was a change of product supplier.**

Distance at property limits:

- From any part of the tank > 0,5 metres
- From the limit of classified zones > 2 metres

No storage in the building interior of:

- Petrol except in the process of vehicle manufacture and assembly
- Diesel when the vehicles are not property of the holder

4. SURFACE INSTALLATIONS

Tank installation:

- If it is necessary, they will have a mechanical protection against exterior impacts

- Simple wall tanks > 1.000 litres

Put in a retention container with higher capacity than the tank.

- Simple wall tanks < 1.000 litres

Spill tray with capacity > 10% of the tank

5. ELECTRIC INSTALLATION

The MI-IP04 regulations show that the electric installation will be made in accordance with the specific current regulations.

6. FIRE PROTECTION

In the case of diesel storage for own consumption, it will be enough to put an extinguisher with 89B minimum effectiveness, sited at less than 10m in inner installations and at 15m in the exterior installations.

7. DISPENSERS AND SUPPLY AND CONTROL KITS

- Reset system with the meter
- Automatic nozzle starting device
- Supply cut device in the dispensers with electronic meter. If the meter fails, there will be a pulse transmitter to pressure and volume indicators
- All components earthing
- The resistance between the ends of the hose will be lower than 1M K

8. ENVIRONMENTAL PROTECTION

> Buried installations

- The drain networks and hydrocarbon separator are required when the vehicles to be supplied are not property of the HOLDER.
- The charging holes must be installed in the spill containers.
- All the tanks will have alarms to avoid a spill because of an excessive filling.

> Surface installations:

- Tanks of capacity > 3000 litres: Alarm to avoid a spill because of an excessive filling
- In the surface installations, there must be installed an anti-siphon valve

9. INSTALLATION REGISTERS

These will be inscribed on the General Industry Directions of each Autonomous Community, according to the following diesel requirements:

SUMMARIZED REPORT, INSTALLATION SKETCH AND CERTIFICATES of the technical responsible of the Installer Company (authorized installer)

- Inner installations with capacity Q < 3000 litres
- Exterior installations with capacity Q < 5000 litres

TECHNICAL PROJECT AND FINAL WORK CERTIFICATE elaborated by a competent technical and with Official College visa

- Inner installations with capacity Q > 3000 litres
- Exterior installations with capacity Q > 5000 litres

10. PERIODICAL INSPECTIONS

- The installations that need project will be inspected every 10 years
- The inspection will consist in the checking of the HOLDER's fulfilling of having made the periodical checks before mentioned. It will be made by the Administration or by the O.C.A

UREA

1 UREA SUPPLY KITS

DESCRIPTION

CODE

UREA SUPPLY KITS

SAD-1000M KIT



These kits are specially designed for the UREA supply to vehicles from a barrel of 200 litres or a tank of 1.000 litres. Because of its base, this kit is easy to use and place. It can be placed in any type of tank or hang in the wall.

Composed of:

- CGI-50 centrifugal self-priming pump · JET type
- Free flow: 40l/min
- Motor: 0,37kW 230VAC, 50Hz single-phase, self-ventilated
- Metallic support with nozzle hanger
- 1,5m transparent UREA suction hose
- 4m delivery UREA hose Ø3/4"
- Universal zinc-plated hook set (adaptable to all type of tanks)
- Minimum operation temperature of the kit: -10°C

Available accessories

- MG-80 Volumetric mechanical meter special for UREA · Accuracy: +/-1%
- PT-60 Manual nozzle special for UREA
- PA-60U Automatic nozzle special for UREA
- Suction Kits for tanks of 200 and 1.000 litres (See Kit 1, 2 and 3)



Box size mm (approx.) 1500 x 720 x 400
Each kit weight Kg (approx.) 15

- Kit AD-200M
- Kit AD-200A
- Kit AD-1000M
- Kit AD-1000A
- Kit AD-CDSM
- Kit AD-CDSA

- Kit SAD-200M
- Kit SAD-200A
- Kit SAD-1000M
- Kit SAD-1000A
- Kit SAD-CDSM
- Kit SAD-CDSA

Pump	Pump + meter	Accessories	Nozzles	Barrel of 200 litres Kit 1	Suction kits Tank of 1.000 litres Kit 2	Tank of 1.000 litres - CDS Kit 3	Code
			PT-60 Manual PA-60U Automatic				
●	●	●	●	●			19070
●	●	●	●	●			19090
●	●	●	●		●		19080
●	●	●	●		●		19100
●	●	●	●			●	19120
●	●	●	●			●	19110
●	●	●	●	●			19010
●	●	●	●	●			19030
●	●	●	●		●		19020
●	●	●	●		●		19040
●	●	●	●			●	19060
●	●	●	●			●	19050

Kit 1

SUCTION KIT FOR 200 LITRE BARRELS



Kit 2

SUCTION KIT FOR 1000 LITRE TANKS



Kit 3

SUCTION KIT FOR 1000 LITRE TANKS (CDS)



DESCRIPTION

CODE

PUMP

CGI-50 • CENTRIFUGAL STAINLESS UREA PUMP

02170

- Centrifugal self-priming pump · JET type
- Free flow: 40l/min
- Consumption: 2,1A
- Motor: 0,37kW 230VAC, 50Hz single-phase, self-ventilated
- RPM: 2800rpm
- S1 continuous duty
- Protection: IP-44
- ON/OFF switch
- 2m electrical cable with EC approved plug
- Inlet/outlet: 1" GAS (BSP)
- Maximum liquid temperature: 60°C
- Maximum operation pressure: 3,2bar
- Maximum suction length: 8m
- LeqA(dB):72

CGI-50



METERS

MG-80 • MECHANICAL METER

32000

- Fireproof measuring chamber with oscillant disc
- Flow: 10-90l/min
- Accuracy: +/- 1%
- Partial indicator of 3 digits and totalizer of 6 digits
- Maximum operation pressure: 3,5bar
- Maximum temperature: 60°C
- 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 filtersieve of 352 micron.
- For private use, not suitable for fiscal operations

MG-80



MGE-80



MGE-80 • ELECTRONIC METER

32030

*Please, see its technical features in page 34

NOZZLES

PT-60 • MANUAL NOZZLE

47010

- Flow: **60l/min**
- F3/4" connection
- Made of polyamide
- Maximum pressure: 2Kg/cm²

PT-60



PA-60U • AUTOMATIC NOZZLE

47291

- Flow: **60l/min**
- F3/4" connection
- Trigger fixation

PA-60U



DESCRIPTION

CODE

MINI BLUE MSGM-4580 + AS-3
MINI BLUE MSGM-4580I + AS-3 + PULSER
19640
19641

The MINI BLUE MSGM-4580 + AS-3 mechanical supply kit is suitable for the UREA supply.

These kits are manufactured with materials compatible with this fluid to avoid damages both in the liquid and the parts that are in touch with it.

Composed of:

- CGI-50 centrifugal self-priming pump
- Free flow: 40l/min
- Motor: 0,37kW 230VAC, 50Hz single-phase, self-ventilated
- 2800rpm
- Consumption: 2,1A - S1 continuous duty
- Measuring kit composed of MG-80 mechanical meter with partial indicator of 6 digits and totalizer of 3 digits
- Accuracy: +/-1%
- 4m delivery urea hose Ø19mm
- PA-60U automatic nozzle
- Nozzle hanger with automatic switch to start and stop the pump

**The MINI BLUE MSGM-4580I + AS-3 has built-in an MGI-80 pulser that gives 10 pulses per litre*

MINI BLUE SUPPLY KITS WITH GK-7 OWN CONSUMPTION CONTROLLER


Possibility of connecting
the kits to PC

These MINI supply kits are suitable for the UREA supply, control and measuring. They have built-in the GK-7 own consumption controller for restricted use and supply control.

These kits are manufactured with materials compatible with this type of fluid to avoid damages both in the liquid and the parts that are in touch with it.

It is composed of:

- CGI-50 centrifugal self-priming pump
- Free flow: 40l/min
- Motor: 0,37kW 230VAC, 50Hz single-phase, self-ventilated
- 2800rpm
- Consumption: 2,1A - S1 continuous duty
- Measuring kit composed of MG-80 mechanical meter with partial indicator of 6 digits and totalizer of 3 digits
- Accuracy: +/-1%
- 4m delivery urea hose Ø19mm
- PA-60U automatic nozzle
- Nozzle hanger with automatic switch to start and stop the pump
- GK-7 own consumption controller (*please see its features in the page 39 of this catalogue*)

40 l/min ■ **MINI BLUE 45CK-60** · 60 users - 200 Memory/Services
 ■ **MINI BLUE 45CK-130** · 130 users - 500 Memory/Services

19620
19621
Optional

- F1" aluminium flange
- Hexagonal pedestal base (please, consult)

800003028

-



Optional: Pedestal base

1 "MONOBLOC" LUBRICANT GEAR PUMPS

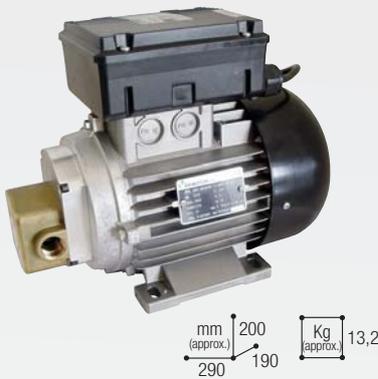
EA-88 (0,37kW)



Equivalence boxes / Flow curves page 76

Note: Free outlet flow rate.
The final flow is subject to the accessories and the installation conditions (please, see page 76).

EA-88 (0,74kW)



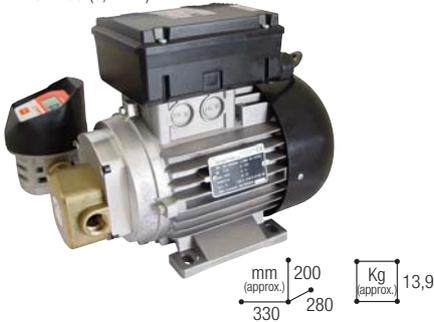
Equivalence boxes / Flow curves page 76

Note: Free outlet flow rate.
The final flow is subject to the accessories and the installation conditions (please, see page 76).

SEA-88 (0,37kW)



SEA-88 (0,74kW)



EA-88 with pressure switch



DESCRIPTION

CODE

25L/MIN 230VAC

Self-suction gear pumps for the lubricant transfer. They are suitable for its use in the agriculture, building, public works and industry.

EA-88 (0,37kW) 230VAC - 20-25L/MIN

5-6 bar

03000

- Gear self-suction
- With recirculation bypass system
- It is suitable for lubricant transfer with average-low density
- Suction: 2,5m · Delivery: 40m
- Oil flow: 20-25l/min (SAE-20/50W at 25°C)
- Motor: 0,37kW self-ventilated 230VAC 50Hz single-phase. IP-55 protection
- With thermal protector
- Consumption: 2-4A
- R.P.M.: 1500rpm
- Bypass pressure: 5-6bar
- Inlet / outlet: 1/2" GAS (BSP)
- ON/OFF Switch
- 3m 230VAC connection cable with injected plug

EA-88 (0,74kW) 230VAC - 20-25L/MIN

9-10 bar

03070

- Gear self-suction
- With recirculation bypass system
- It is suitable for lubricant up to SAE-140 density
- Suction: 2,5m · Delivery: 40m
- Flow: 20-25l/min (SAE-20/50W at 25°C)
- Motor: 0,74kW self-ventilated 230VAC 50Hz single-phase. IP-55 protection
- With thermal protector
- Consumption: 4-6A
- R.P.M.: 1500rpm
- Bypass pressure: 9-10bar
- Inlet / outlet tube: 1/2" GAS (BSP)
- ON/OFF Switch
- 3m 230VAC connection cable with injected plug



- EA-88 0,37kW and 0,74kW optional:
 - Pump support handle

030003001

SEA-88 · PUMP WITH LITRE METER

Pumps		Meters
EA-88 (0,37kW)	EA-88 (0,74kW)	MGE-40 Electronic
•	•	•

31201

31202

EA-88 (0,37kW) 230VAC WITH PRESSURE SWITCH 10bar EA-88 (0,74kW) 230VAC WITH PRESSURE SWITCH 35bar

10-35 bar

03110

03080

It is recommended to equip the pump with a PRESSURE SWITCH, which allows the pump starting and automatic stopping with the nozzle opening or closing on a long distance industrial supplying installation. It has a non-return valve built-in.



- Optional
 - Pump support handle
 - Vacuum gauge

030003001
8035000020

DESCRIPTION

CODE

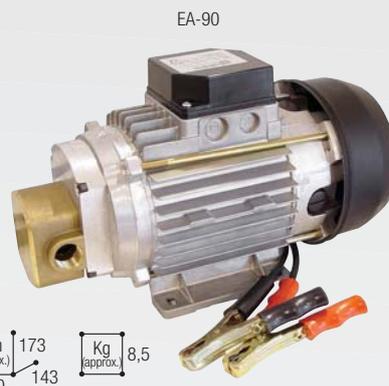
25L/MIN 12/24VDC

EA-90 (0,40kW) 12VDC · 20-25L/MIN
EA-90 (0,40kW) 24VDC · 20-25L/MIN

5-6 bar

03014
03090

- Gear self-suction
- With recirculation bypass system
- It is suitable for lubricant transfer with average/low density
- Suction: 2,5m · Delivery: 40m
- Flow: 20-25l/min (SAE-20/50W at 25°C)
- Motor: 0,40kW self-ventilated 12 or 24VDC
- S1 continuous duty
- IP-55 protection
- Consumption : 20-35A (12VDC) and 24-40A (24VDC)
- R.P.M.: 1500rpm
- Bypass tared at 5-6bar
- Inlet / outlet tube: 1/2" GAS (BSP)
- With clamps for 12 or 24VDC battery connection with 2m of cable



mm (approx.) 173
300 143 Kg (approx.) 8,5

+ Equivalence boxes / Flow curves page 76

Note: Free outlet flow rate. The final flow is subject to the accessories and the installation conditions (please, see page 76).

25 L/MIN

12/24 VDC

0,40 kW

SEA-90 · PUMP WITH LITRE METER

Bomba EA-90 (0,40kW) 12VDC + MGE-40 Electronic meter
Bomba EA-90 (0,40kW) 24VDC + MGE-40 Electronic meter

31470
31550



Optional
- Pump support handle

030003001



mm (approx.) 173
320 230 Kg (approx.) 9,2

50-55L/MIN 230VAC

EA-65 (2,2kW) 230VAC · 50-55L/MIN

6-8 bar

03040

- Gear self-suction
- It is suitable for lubricant transfer with average/low density
- Suction: 2,5m · Delivery: 40m
- Flow: 50-55l/min with SAE-10W/30
- Motor: 2,2kW self-ventilated 230VAC single-phase. IP-55 protection
- Thermal protector
- Consumption:10-15A
- R.P.M.: 1400rpm
- Pressure: 6-8bar (adjustable through the bypass valve)
- Suction/delivery pump diameter: 1 1/4" GAS (BSP)



EA-65 230VAC

mm (approx.) 260
570 200 Kg (approx.) 26,7

+ Equivalence boxes / Flow curves page 76

Note: Free outlet flow rate. The final flow is subject to the accessories and the installation conditions (please, see page 76).

55 L/MIN

230 VAC

2,2 kW

SEA-65 · PUMP WITH LITRE METERS

Pump	Meter
 EA-65 2,2kW	 MGE-150 Electronic

31760



SEA-65 230VAC

mm (approx.) 260
570 430 Kg (approx.) 31,8



DESCRIPTION

CODE

10-83L/MIN 230VAC

EA-10B (0,55kW) 230VAC · 12L/MIN

14 bar

03200

- Reversible gear pump
- Directional bypass
- Max. flow: **12 l/min**
- Motor: 0,55kW 230VAC 50Hz single-phase
- IP-55 protection
- R.P.M.: 1350rpm
- Thermal protector
- Bypass pressure: 14bar
- Inlet / Outlet: 3/8"
- 2m electrical cable with approved plug
- ON/OFF switch

EA-15 (0,74kW) 230VAC · 16-20L/MIN

10-15 bar

24270

- Maximum suction height: 5m
- Flow: **16-20l/min**
- Motor: 0,74kW 230VAC single-phase. IP-55 protection
- Consumption: 5,7A
- R.P.M.: 1450rpm
- Maximum pressure: 10bar (adjustable through the bypass valve)
- Maximum operation temperature: 130°C
- Pump suction/delivery diameter: 1" GAS (BSP)

EA-30 (1,03kW) 230/400VAC · 30L/MIN

10-15 bar

24130

- Maximum suction height: 5m
- Flow: **30l/min**
- Motor: 1,03kW 230/400VAC 3ph. IP-55 protection
- Consumption: 5,3/3,1A
- R.P.M.: 1450rpm
- Maximum pressure: 10-15bar (adjustable through the bypass valve)
- Maximum operation temperature: 130°C
- Pump suction/delivery diameter: 1" GAS (BSP)

EA-40 (1,47kW) 230/400VAC · 40-42L/MIN

10 bar

24140

- Maximum suction height: 5m
- Flow: **40-42l/min**
- Motor: 1,47kW 230/400VAC 3ph. IP-55 protection
- Consumption: 7,3/4,2A
- R.P.M.: 950rpm
- Maximum pressure: 10bar (adjustable through the bypass valve)
- Maximum operation temperature: 130°C
- Pump suction/delivery diameter: 1 1/4" GAS (BSP)

EA-50 (2,2kW) 230/400VAC · 59L/MIN

10 bar

24150

- Maximum suction height: 5m
- Flow: **59l/min**
- Motor: 2,2kW 230/400VAC 3ph. IP-55 protection
- Consumption: 9,9/5,7A
- R.P.M.: 1450rpm
- Maximum pressure: 10bar (adjustable through the bypass valve)
- Maximum operation temperature: 130°C
- Pump suction/delivery diameter: 1 1/4" GAS (BSP)

EA-80 (1,5kW) 230/400VCA · 83L/MIN

4 bar

24160



- Maximum suction height: 5m
- Flow: **83l/min**
- Motor: 1,5kW 230/400VAC Three-phase. Protection: IP-55
- R.P.M.: 1500rpm
- Maximum pressure: 4bar (SAE 15W 40)
- Maximum operation temperature: 90°C

DESCRIPTION

CODE

1000L/MIN 400-660VAC

BEA-1000 (14,71kW) 400/660VAC - 1000L/MIN



24200

- Gear self-suction
- Maximum suction height: 5m
- Flow: **1000l/min**
- Motor: 14,71kW 400/660VAC 3ph
- IP-55 protection
- Consumption: 31A
- R.P.M.: 720rpm
- Maximum pressure: 5bar (adjustable through the bypass valve)
- Maximum operation temperature: 160°C
- Pump suction/delivery diameter: 4" in flange

FILTERS

YORK BASE FILTER

■ 1/2" York base filter	802700004
■ 3/4" York base filter	802700005
■ 1" York base filter	802700003
■ 1 1/4" York base filter	802700002
■ 1 1/2" York base filter	802700001
■ 2" York base filter	802700006

YORK base filter



FUP-1 FF1" THICK MESH FILTER (POLYAMIDE + FIBREGLASS)

66032

FUP-1



“Y” BRASS FILTERS

■ 1/2" brass filter	802701006
■ 3/4" brass filter	802701004
■ 1" brass filter	802701003
■ 1 1/4" brass filter	802701002

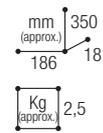
FGR-25 - HEATER FILTER

66080

Filter made of injected aluminium alloy for lubricants, with inner electric resistance of 230VAC 300W, with adjustable thermostat from 20° to 90°C, if there is a product prewarming. It is easy to install and its maintenance is simple.

- Regenerating filtering stainless steel cartridge
- Flow: 8-25l/min - Filtration range: 300µm
- Sealing with nitrile rubber joints NB 100/70 DIN3535
- Connection: 1"

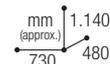
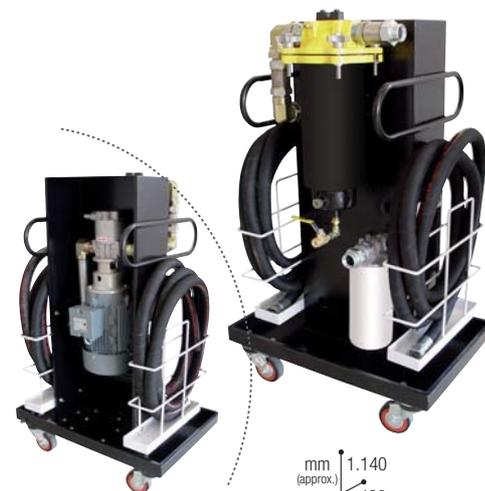
FGR-25



FILTERING OIL KIT WITH EA-80 PUMP - 40 L/MIN

66180

- Unit of easy handling
- Flow: 40l/min
- Suction: 5m
- Delivery: 30m
- Composed of:
 - EA-80 self-suction gear pump with recirculation bypass system · Motor: 1,5kW 230/400VAC three-phase
 - Primary filter with absorbent average of 10 micron
 - Primary filter inlet port: 1 1/4" NPT
 - Primary filter head with manometer and bypass Secondary cellulose filter with 1, 5, 10 and 25 micron
 - Secondary filter outlet: 1 1/2" NPT

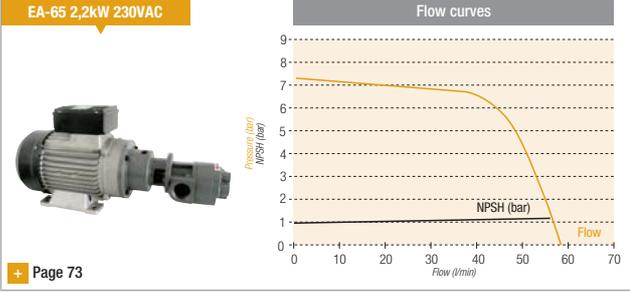
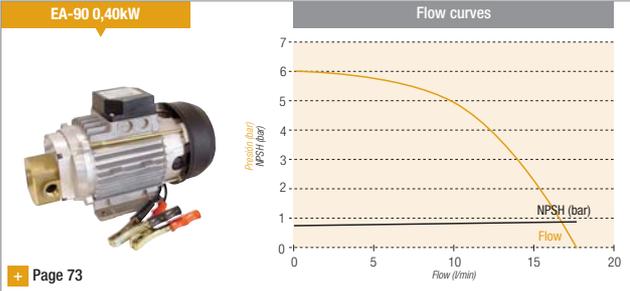
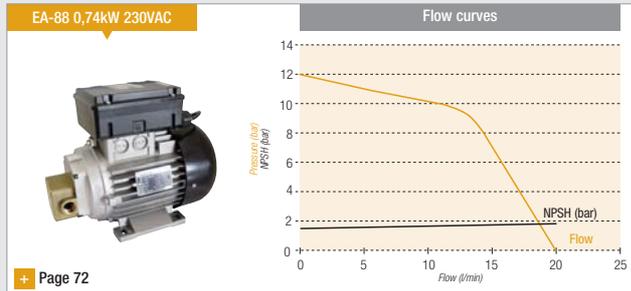
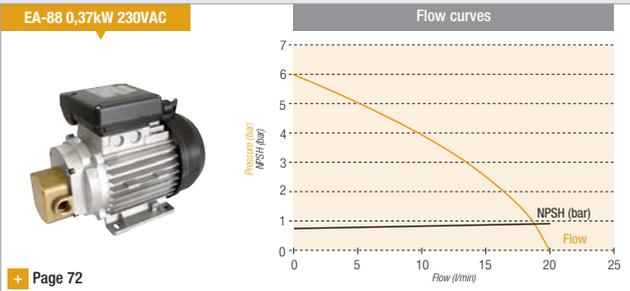


■ **Optional**

- 10 micron interceptor filtering element spare
- 1 micron cellulose average filtering element spare

661803000
661803001

“MONOBLOC” GEAR PUMPS



4

MANUAL LUBRICANT LEVER PUMP



BP-5 · MANUAL LEVER PUMP

04010

Manual lever pump to transfer diesel, all type of lubricants and other non-corrosive fluids from 50 to 200 litre barrels.

Technical data:

- The pump body is made of aluminium like the discharging tube
- 88cm aluminium metallic telescopic suction tube
- 2" connection adaptable to metallic barrels of 50, 100 and 200 litres
- Nitrile and viton joints
- Transfer capacity: 0,5 litres x piston-stroke (*litres per lever stroke*)

DESCRIPTION

Special self-suction lubricant Kits for the lubricant transfer. These kits are easy to install in all type of tanks or wall-fixed, allowing the quick barrel change.

CODE

EA-88 (0,37kW or 0,74kW) ELECTRIC KIT FOR 200 LITRE BARREL

Equipped with:

- EA-88 (0,37kW) 230VAC or EA-88 (0,74kW) 230VAC pump
- 4m R1 Ø1/2" delivery hose with adapters in both ends
- 1m Ø3/4" transparent suction hose with valve and York filter built-in and bung adapter
- PG-40 oil hand control valve or PMGE-40 complete electronic oil control valve with 60° rigid outlet with non-drip valve
- 2 universal hook set to hang the nozzle and the hose

Pump		Accessories	Nozzles	
EA-88 0,37kW	EA-88 0,74kW		PG-40	PMGE-40
•		•	•	
•		•		•
	•	•	•	
	•	•		•

- KDE-200
- KDE-200E
- KDE-200
- KDE-200E

20620
20630
22010
20650



EA-88 (0,74kW) ELECTRIC KIT FOR 200 LITRE BARREL

Equipped with:

- EA-88 (0,74kW) 230VAC pump
- 4m R1 Ø1/2" delivery hose with adapters
- 3/4" metallic suction Kit, height 1m with York filter built-in and bung adapter (two threads)
- PG-40 oil hand control valve or PMGE-40 complete electronic oil control valve with 60° rigid outlet with non-drip valve

Pump	Accessories	Nozzles	
EA-88 0,74kW		PG-40	PMGE-40
•	•	•	
	•		•

- KEB1-200
- KEB1-200E

20330
20340



EA-88 (0,74kW) ELECTRIC KITS WITH HOSE-REEL FOR 200 LITRE BARREL

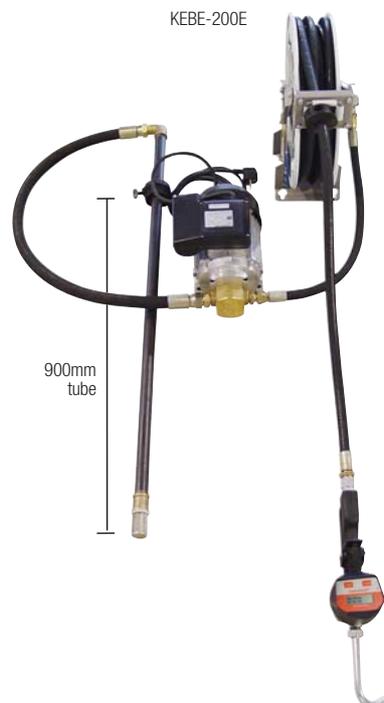
Equipped with:

- EA-88 (0,74kW) 230VAC pump
- 10m R1 Ø1/2" delivery hose with adapters
- 3/4" metallic suction tube 3/4", height 1m with York filter built-in
- PG-40 oil hand control valve or PMGE-40 complete electronic oil control valve with 60° rigid outlet with non-drip valve
- Open and cased hose-reel

Pump	Accessories	Nozzles		Hose-reels	
EA-88 0,74kW		PG-40	PMGE-40	Open	Cased
•	•	•		•	
•	•	•			•
	•		•	•	
	•		•		•

- KEBE-200
- KEBEC-200
- KEBE-200E
- KEBEC-200E

20350
20920
20360
20930



■ Common optional accessories

- Universal zinc-plating hook set
- Pump support handle
- 4" F2" adapter plug for 1.000 litre tanks
- DP-1000LX · Polythene tank of capacity 1000 litres
- CE-200 · 185Kg barrel trolley for hose-reel

800404049
030003001
805204004
37030
68630

KDE-1000E



*The tank is not included

DESCRIPTION

CODE

ELECTRIC DISPENSER KIT FOR 1000 LITRE TANK

Equipped with:

- EA-88 (0,37kW) 230VAC or EA-88 (0,74kW) 230VAC pump
- 6m R1 Ø1/2" delivery oil hose
- PG-40 oil hand control valve or PMGE-40 complete electronic oil control valve
- 60° rigid outlet with non-drip valve
- 3/4" metallic tube kit, height 1m with filter built-in
- 2" bung adapter (two threads) and tank adapter plug
- Metallic tank support with nozzle hanger

	Pump		Accessories	Nozzles		
	EA-88 0,37kW	EA-88 0,74kW		PG-40	PMGE-40	
■ KDE-1000	•		•	•		20640
■ KDE-1000E	•		•		•	20290
■ KDE-1000		•	•	•		22020
■ KDE-1000E		•	•		•	20660

DAE-1000



*The tank is not included

DAE-1000 ELECTRIC DISPENSER KIT FOR 1000 LITRE TANK

12690

Equipped with:

- EA-88 (0,74kW) 230VAC pump
- 10m R1 Ø1/2" delivery oil hose
- 3/4" metallic suction tube kit, height 1m with York filter built-in
- PMGE-40 complete electronic oil control valve to supply and measure oil with non-drip valve
- Flexible tube with 90° rigid outlet and non-drip end
- Metallic support with PMGE-40 valve protector and oil drip-receiver
- R1 Ø1/2" delivery hose with adapters in both ends, hose-reel connection to pump
- R1 Ø1/2" delivery hose with adapters in both ends, suction connection to pump
- Open hose-reel
- 4" F2" adapter plug and bung adapter (two threads)

DAE-1500



*The tank is not included

DAE-1500 ELECTRIC DISPENSER KIT WITH 1500 LITRE TANK

20190

Equipped with:

- EA-88 (0,74kW) 230VAC pump
- PMGE-40 complete electronic oil control valve to supply and measure oil with non-drip valve
- 60° rigid outlet with non-dripping valve
- Open hose-reel with 8m R1 Ø1/2" delivery hose
- R1 Ø1/2" delivery hose with adapters in both ends, hose-reel connection to pump
- R1 Ø1/2" delivery hose with adapters in both ends, suction connection to pump
- 3/4" metallic suction kit, height
- 1500 litre tank with level and cut-off valve
- Ventilation of 1 1/2"
- Manhole with F2" charging hole



■ Common optional accessory

- 1/2" transparent tube (bubble detector) kit

473502016

DESCRIPTION

The pneumatic pumps are designed to transfer lubricants. They have built-in a bung adapter of fixation to barrel of R2" and M64x4 threads. Using the adequate accessories these are ideal to be fitted to barrels, tanks, wall or mobile units.

CODE

GM-1 · PNEUMATIC PUMP · RATIO 1:1



Low pressure pneumatic pump suitable for the quick lubricant transfer at a distance lower than 10m.

- Flow: 25-35l/min
- Maximum operation pressure: 8bar
- Min./Max. air pressure: 3-8bar
- Noise level: +/-67dB (A)
- Outlet oil thread: M1/2"
- Inlet oil thread: F1/4"

Assembly	Suction tube diameter	Suction tube length (mm)	Total Height (mm)	Weight (Kg)	
■ Wall	1"	-	340	4,30	12000
■ Barrel of 50 litres	1"	480	820	5,10	12010
■ Barrel of 200 litres	1"	893	5,70	12020	

GM-3 · PNEUMATIC PUMP · RATIO 1:3



Half pressure pneumatic pump suitable for the lubricant and fluid transfer and distribution.

- Flow: 20-27l/min
- Maximum operation pressure: 24bar
- Min./Max. air pressure: 3-8bar
- Noise level: +/-67dB (A)
- Outlet oil thread: M1/2"
- Inlet oil thread: F1/4"

Assembly	Suction tube diameter	Suction tube length (mm)	Total Height (mm)	Weight (Kg)	
■ Wall	1"	-	340	3,80	12030
■ Barrel of 50 litres	1"	480	820	4,60	12040
■ Barrel of 200 litres	1"	893	1.233	5,20	12050

GM-5 · PNEUMATIC PUMP · RATIO 1:5



High pressure pneumatic pump for the distribution of all type of lubricants. It is suitable for large installations, even supplying simultaneously lubricant in some points with hose-reels.

- Flow: 22-28l/min
- Maximum operation pressure: 40bar
- Min./Max. air pressure: 3-8bar
- Noise level: +/-67dB (A)
- Outlet oil thread: M1/2"
- Inlet oil thread: F1/4"

Assembly	Suction tube diameter	Suction tube length (mm)	Total height (mm)	Weight (Kg)	
■ Wall	1"	-	350	6,55	12060
■ Barrel of 50 litres	1"	480	830	7,35	12070
■ Barrel of 200 litres	1"	893	1.243	7,95	12080



■ **Optional**

- RP-1 · Pressure regulator with MF1/4" valve (page 115) 801902001
- RLP-1 · Regulator-greaser-purifier (page 115) 801902002
- Pneumatic wall pump support 800404020
- 25bar pressure relief kit 12950
- 50bar pressure relief kit 12960
- 70bar pressure relief kit 12970

GM-1 (wall) GM-1 (barrel)



Pneumatic pump support to put the pump in the wall

➤ Flow curves page 80

GM-3 (wall) GM-3 (barrel)



Pneumatic pump support to put the pump in the wall

➤ Flow curves page 80

GM-5 (wall) GM-5 (barrel)



Pneumatic pump support to put the pump in the wall

➤ Flow curves page 80



IT MUST BE INSTALLED A PRESSURE REGULATOR-GREASER-PURIFIER ON THE PNEUMATIC PUMPS

DESCRIPTION

CODE

High pressure and high flow pneumatic pumps specially designed for extreme conditions or when some high oil deliveries are required in a short time.



GC-5/200 · PNEUMATIC PUMP

40
bar

12130

- Flow: 40l/min
- Maximum operation pressure: 40bar

Suction tube diameter	Suction tube length	Pump length	Total height	Weight
40mm	700mm	198mm	898mm	14,5Kg

+ Flow curves page 80



GC-10/200 · PNEUMATIC PUMP

80
bar

12140

- Flow: 50l/min
- Maximum operation pressure: 80bar

Suction tube diameter	Suction tube length	Pump length	Total height	Weight
40mm	700mm	210mm	910mm	16Kg

+ Flow curves page 80



■ **Optional**

- RP-1 · Pressure regulator with MF1/4" valve (page 115)
- RLP-1 · Regulator-greaser-purifier (page 115)
- Pneumatic wall pump support
- 25bar pressure relief kit
- 50bar pressure relief kit
- 70bar pressure relief kit

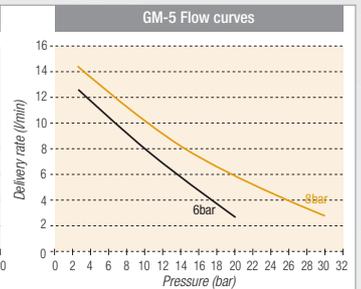
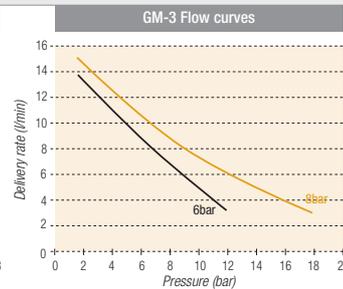
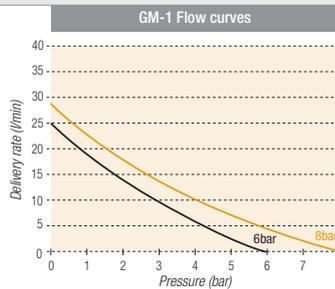
801902001
801902002
800404020
12950
12960
12970



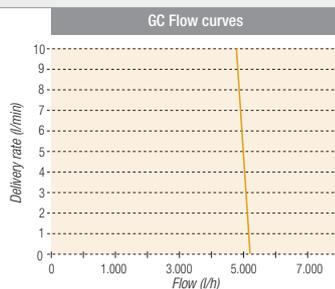
IT MUST BE INSTALLED A PRESSURE REGULATOR-GREASER-PURIFIER ON THE PNEUMATIC PUMPS



+ Page 79



+ Page 80



DESCRIPTION

CODE

PNEUMATIC PUMP KIT ON 200 LITRE BARREL

- Pneumatic barrel pump
- RP-1 · Pressure regulator
- 3m delivery hose R1 Ø1/2" with adapter on both ends
- PG-40 hand oil control valve and PMGE-40 complete electronic oil control valve
- 60° rigid outlet with non-drip valve
- Bung adapter (two threads)

Pumps		Accessories	Nozzles	
GM-3	GM-5		PG-40	PMGE-40
●		●	●	
●		●		●
	●	●	●	
	●	●		●

- **KNB-200** 20210
- **KNB-200E** 20220
- **KNB-200** 20730
- **KNB-200E** 20740

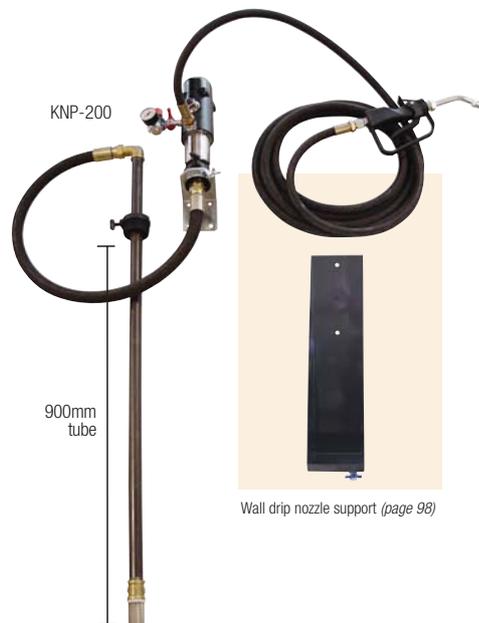


PNEUMATIC WALL PUMP KIT FOR 200 LITRE BARREL

- Pneumatic wall pump
- Wall pump support
- RP-1 · Pressure regulator
- 6m delivery hose R1 Ø1/2" with adapter on both ends
- PG-40 hand oil control valve and PMGE-40 complete electronic oil control valve
- 60° rigid outlet with non-drip valve
- Bung adapter (two threads)
- 2m hose union to suction pump tube (type R1, F3/4" adapters and 90° F3/4" elbow)
- 3/4" metallic suction tube, height 1m with filter built-in

Pumps		Accessories	Nozzles	
GM-3	GM-5		PG-40	PMGE-40
●		●	●	
●		●		●
	●	●	●	
	●	●		●

- **KNP-200** 20230
- **KNP-200E** 20240
- **KNP-200** 20750
- **KNP-200E** 20760



PNEUMATIC WALL PUMP KIT WITH HOSE-REEL AND FOR 200 LITRE BARREL

- Pneumatic wall pump
- Wall pump support
- RP-1 · Pressure regulator
- 10m delivery hose R1 Ø1/2" with adapter on both ends
- PG-40 hand oil control valve and PMGE-40 complete electronic oil control valve
- 60° rigid outlet with non-drip valve
- Bung adapter (two threads)
- 2m hose union to suction pump tube (type R1, F3/4" adapters and 90° F3/4" elbow)
- 3/4" metallic suction tube, height 1m with filter built-in
- Open or cased hose-reel with 10m hose

Pumps		Accessories	Nozzles		Hose-reels	
GM-3	GM-5		PG-40	PMGE-40	Open	Cased
●		●	●		●	
●		●				●
	●	●	●		●	
	●	●				●
	●	●	●		●	
	●	●				●
	●	●	●		●	
	●	●				●

- **KNPE-200** 20250
- **KNPEC-200** 20770
- **KNPE-200E** 20260
- **KNPEC-200E** 20780
- **KNPE-200** 20790
- **KNPEC-200** 20810
- **KNPE-200E** 20800
- **KNPEC-200E** 20820



KDN-1000E INF.



*The tank is not included

KDN-1000E SUP.



*The tank is not included

DAN-1000



*The tank is not included

DAN-1500



*The tank is not included

DESCRIPTION

CODE

PNEUMATIC DISPENSER KITS FOR 1.000 LITRE TANK

Bottom suction

Pneumatic dispenser kit with bottom outlet for polyethylene tanks of 1.000 litre capacity, **composed of:**

- Pneumatic wall pump
- RP-1 · Pressure regulator
- 6m delivery oil hose R1 Ø1/2" with universal hook set
- PG-40 hand oil control valve and PMGE-40 complete electronic oil control valve
- 60° rigid outlet with non-drip valve
- Metallic tank support with nozzle holder
- TAC · Aluminium adapter cap
- 0,70m R1 high pressure hose

Pumps		Accessories	Nozzles	
GM-3	GM-5		PG-40	PMGE-40
●		●	●	
●		●		●
	●	●	●	
	●	●		●

- **KDN-1000 INF.**
- **KDN-1000E INF.**
- **KDN-1000 INF.**
- **KDN-1000E INF.**

- 20670
- 20600
- 20950
- 20960

Direct top suction

- It includes the 4" F2" adapter plug for 1.000 litre tanks

- **KDN-1000 SUP.**
- **KDN-1000E SUP.**
- **KDN-1000 SUP.**
- **KDN-1000E SUP.**

●		●	●	
●		●		●
	●	●	●	
	●	●		●

- 20680
- 20690
- 20890
- 20910

DAN-1000 - PNEUMATIC DISPENSER KIT FOR 1.000 LITRE TANK

12680

Pneumatic dispenser kit for polythene tanks of 1.000 litre capacity. For its installation it only needs an air inlet at 1m of the kit.

Composed of:

- GM-3 · Pneumatic wall pump · ratio 1:3
- RP-1 · Pressure regulator
- Open hose-reel
- 10m R1 Ø1/2" delivery hose
- R1 Ø1/2" delivery hose with adapters on both ends, hose-reel connection to pump
- R1 Ø1/2" delivery hose with adapters on both ends, suction connection to pump
- PMGE-40 complete electronic oil control valve with non-drip valve and transparent bubble detector tube
- Flexible tube with 90° rigid outlet and non-drip end
- 3/4" metallic suction tube, height 1m with filter built-in
- Metallic protector support with drip receiver

■ **Optional**

- DP-1000LX - Polythene tank of 1.000 litre capacity
- 1/2" transparent bubble detector tube kit

37030
473502016

DAN-1500 - PNEUMATIC DISPENSER KIT WITH 1500 LITRE TANK

20200

Pneumatic dispenser kit with steel tank of 1.500 litre capacity for the lubricant storage and distribution. For its installation it is only necessary an air inlet. **Composed of:**

- GM-3 · Pneumatic pump · ratio 1:3
- RP-1 · Pressure regulator
- Open hose-reel with 8m delivery hose R1 Ø1/2"
- 10m R1 Ø1/2" delivery hose
- R1 Ø1/2" delivery hose with adapters on both ends, hose-reel connection to pump
- R1 Ø1/2" delivery hose with adapters on both ends, suction connection to pump
- PMGE-40 complete electronic oil control valve with non-drip valve and transparent bubble detector tube
- 60° rigid outlet with non-drip end
- Suction kit
- Tank of 1.500 litre with level and cut-off valve
- 1 1/2" venting
- Manhole with F2" charging hole
- Level indicator

DESCRIPTION

CODE

PNEUMATIC MOBILE KITS FOR 50 LITRE BARREL

- Pneumatic pump for 50 litre barrel
- RP-1 · Pressure regulator
- 3m R1 Ø1/2" delivery hose with adapters on both ends
- PG-40 hand oil control valve and PMGE-40 complete electronic oil control valve
- 60° rigid outlet with non-drip end
- 3/4" Bung adapter (two threads)
- Mobile trolley for 50 litre barrel

Pumps		Accessories	Nozzles	
GM-3	GM-5		PG-40	PMGE-40
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- KNC-50
- KNC-50E
- KNC-50
- KNC-50E

- 20370
- 20380
- 20830
- 20840



PNEUMATIC MOBILE KITS FOR 200 LITRE BARREL

- Pneumatic pump for 200 litre barrel
- RP-1 · Pressure regulator
- 3m R1 Ø1/2" delivery hose with adapters on both ends
- PG-40 hand oil control valve and PMGE-40 complete electronic oil control valve
- Flexible tube with 90° rigid outlet and non-drip end
- 3/4" Bung adapter (two threads)
- Mobile trolley for 200 litre barrel

Pumps		Accessories	Nozzles	
GM-3	GM-5		PG-40	PMGE-40
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- KNC-200
- KNC-200E
- KNC-200
- KNC-200E

- 20390
- 20400
- 20850
- 20860



PNEUMATIC MOBILE KITS WITH HOSE-REEL FOR 200 LITRE BARREL

- Pneumatic pump for 200 litre barrel
- RP-1 · Pressure regulator
- 8m R1 Ø1/2" delivery hose with adapters on both ends
- PG-40 hand oil control valve and PMGE-40 complete electronic oil control valve
- Flexible tube with 90° rigid outlet and non-drip end
- 3/4" Bung adapter (two threads)
- Mobile trolley with hose-reel

Pumps		Accessories	Nozzles	
GM-3	GM-5		PG-40	PMGE-40
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- KNCE-200
- KNCE-200E
- KNCE-200
- KNCE-200E

- 20410
- 20420
- 20870
- 20880



DESCRIPTION

CODE

Diaphragm pumps for the transfer of corrosive liquids and with little impurities (max. diameter: 2mm). Suitable for brake and antifreeze fluids.

1/4" Diaphragm pump



18

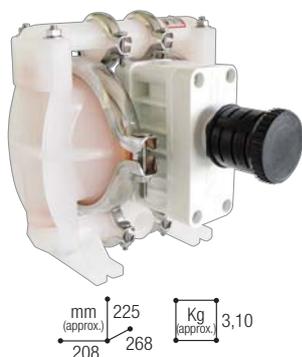
L/MIN

1/4" DIAPHRAGM PUMP FOR BRAKE AND ANTIFREEZE FLUIDS

12160

- Flow: 18l/min
- Max. pressure: 8,6bar (125 PSI)
- Body: Polypropylene
- Suction and delivery connections: 1/4" NPT
- Balls: Teflon
- Seats: Polypropylene
- Seat joints: Teflon
- System: without lubrication without medium position
- Silencer built-in

1/2" Diaphragm pump



50

L/MIN

1/2" DIAPHRAGM PUMP FOR BRAKE AND ANTIFREEZE FLUIDS

12150

- Flow: 56l/min
- Max. pressure: 8,6bar (125 PSI)
- Body: Polypropylene
- Suction and delivery connections: 1/2" NPT
- Balls: Teflon
- Seats: Polypropylene
- System: without lubrication without medium position

KITS FOR BARRELS

- Diaphragm pump for 200 litre barrel
- 4m delivery hose R1 Ø1/2" with adapters on both ends
- 1m transparent suction hose 3/4" with valve, York filter and bung adapter (two threads)
- PG-40 hand oil control valve or PMGE-40 complete electronic oil control valve with 60° rigid outlet with non-drip end
- 2 universal hook sets to hang the nozzle and the hose
- Open or cased hose-reel with 10m hose

KBDEC1/4-200E



- KBD1/4-200
- KBD1/4-200E
- KBDE1/4-200
- KBDE1/4-200E
- KBDEC1/4-200
- KBDEC1/4-200E
- KBD1/2-200
- KBD1/2-200E
- KBDE1/2-200
- KBDE1/2-200E
- KBDEC1/2-200
- KBDEC1/2-200E

Diaphragm pumps		Accessories	Nozzles		Hose-reels	
1/4"	1/2"		PG-40	PMGE-40	Abierto	Cased
●		●	●			
●		●		●		
		●			●	
		●			●	
●		●				●
●		●				●
	●	●	●			
	●	●	●			
	●	●	●			
	●	●	●			
	●	●	●			
	●	●	●			

12830
12840
12870
12880
12890
12900
12850
12860
12910
12920
12930
12940

■ Optional

- RP-1 · Pressure regulator with MF1/4" valve (page 115)
- RLP-1 · Regulator-greaser-purifier (page 115)

801902001
801902002



IT MUST BE INSTALLED A PRESSURE REGULATOR-GREASER-PURIFIER ON THE PNEUMATIC PUMPS

DESCRIPTION	CODE
1" DIAPHRAGM HIGH FLOW PUMP FOR NEW AND WASTE LUBRICANTS	12090

170
L/MIN

Diaphragm pump for the new and waste lubricants. It can transfer lubricant with little impurities (max. diameter: 2mm). *Please, consult other liquids.*

- Flow: 170l/min
- Air flow: 1133l/min
- Max. pressure: 8,6bar (125 PSI)
- Body: injected aluminium
- Suction connection: 1" BSP
- Delivery connection: 3/4" BSP
- Membranes: BUNA
- Seats: Aluminium
- Seat joints: BUNA
- System: without lubrication without middle position



Optional

- RP-1 · Pressure regulator with MF1/4" valve (page 115)
- RLP-1 · Regulator-greaser-purifier (page 115)

801902001
801902002



1" Diaphragm pump

mm (approx.) 279
267 280

Kg (approx.) 6,85



IT MUST BE INSTALLED A PRESSURE REGULATOR-GREASER-PURIFIER ON THE PNEUMATIC PUMPS

Ø1/2" white open or cased hose-reels for many applications, specially suitable for installations. They get easy the fluid supply at any point of operation. They can be assembled on the wall, tanks, hanging from ceiling or anchored to fixed or swinging brackets.

They are heavy duty and with swinging arms to achieve the best operation at any point of assembly. Resistance: 200bar.

Ø1/2" OPEN OIL HOSE-REEL (WITHOUT HOSE)

- Capacity up to 10m
- Capacity up to 15m

807301003
807301005

Ø1/2" OPEN OIL HOSE-REEL WITH HOSE WITH ADAPTERS ON BOTH ENDS

Open hose-reel with R1 Ø1/2" hose special for oil.

- E-06 with 6m Ø1/2" hose
- E-08 with 8m Ø1/2" hose
- E-10 with 10m Ø1/2" hose
- E-12 with 12m Ø1/2" hose
- E-15 with 15m Ø1/2" hose

807300103
807300104
807300101
807300105
807300102

Ø1/2" CASED OIL HOSE-REEL (WITHOUT HOSE)

807300200

Cased high resistance hose-reel for Ø1/2" hose with swinging bracket built-in. Capacity up to 15m.

- Resistance: 200bar

Ø1/2" CASED OIL HOSE-REEL WITH HOSE

Cased hose-reel with R1 Ø1/2" hose special for oil.

- EC-06 with 6m Ø1/2" hose with swinging bracket
- EC-08 with 8m Ø1/2" hose with swinging bracket
- EC-10 with 10m Ø1/2" hose with swinging bracket
- EC-12 with 12m Ø1/2" hose with swinging bracket
- EC-15 with 15m Ø1/2" hose with swinging bracket

807300203
807300204
807300201
807300205
807300202

SWINGING HOSE-REEL BRACKET

24050

Swinging zinc-plated wall bracket to swing the hose-reel on the desired position.

Open hose-reel without hose



Open hose-reel with hose



Cased hose-reel



Swinging bracket



DESCRIPTION

CODE



METERS

- Electronic meters with aluminium measuring chamber, with high accuracy oval gears, with swivel Display-LCD that allows a 90° turn respect to the housing (only the MGE-40 meter)
- Display of 5 digits
- It saves the litres of the last service
- Flow: from 2 to 150l/min
- Maximum pressure: 80bar (security pressure)
- Maximum operation pressure: 50bar
- Min./max. temperature: -5°C / +60°C
- Accuracy: +/- 0,5%
- These meters are suitable for the lubricant measuring up to SAE-140 density
- Long duration button battery. Low battery alarm
- Calibration parameters and totalizer of litres stored in PERMANENT memory



mm (approx.) 100
100 125
Kg (approx.) 0,65

MGE-50



mm (approx.) 155
153 90
Kg (approx.) 2,25

MGE-100

mm (approx.) 194
147 90
Kg (approx.) 2,95

MGE-150



mm (approx.) 170
116 104
Kg (approx.) 4,9

MGI-40

mm (approx.) 85
95
Kg (approx.) 0,58

MGI-50



MGI-100

MGI-150

mm (approx.) 170
116 104
Kg (approx.) 4,9

MGE-40 • ELECTRONIC METER

40 L/MIN

32200

- Flow: 2-40l/min
- Connection: F1/2"

MGE-50 • ELECTRONIC METER

50 L/MIN

32550

- Flow: 4-50l/min
- Connection: F3/4" (flange)

MGE-100 • ELECTRONIC METER

100 L/MIN

32560

- Flow: 7-100l/min
- Connection: F1" (flange)

MGE-150 1" • ELECTRONIC METER
MGE-150 1 1/2" • ELECTRONIC METER

150 L/MIN

32501

32521

- Flow: 10-150l/min
- Connection: F1" or 1 1/2" (flange)

PULSERS



Pulsers for its assembly in line, giving the exact información to the management systems and fluid control.

- Flow: from 2 to 150l/min
- Two communication channels through REEDS
- Pulses: 2 180° phased channels

MGI-40 • PULSER

40 L/MIN

32280

- Housing: aluminium · Cover: plastic
- Flow: 2-40l/min
- Connection: F1/2"
- 78 pulses per channel · 56 pulses per litre

MGI-50 • PULSER

50 L/MIN

32530

- Housing and cover: aluminium
- Flow: 4-50l/min
- Connection: F3/4" (flange)
- Pulses per channel: 52 l/pulse

MGI-100 • PULSER

100 L/MIN

32540

- Housing and cover: aluminium
- Flow: 7-100l/min
- Connection: F1" (flange)
- Pulses per channel: 26 l/pulse

MGI-150 • PULSER

150 L/MIN

32510

- Housing and cover: aluminium
- Flow: 10-150l/min
- Connection: F1" (flange)
- 22 pulses per litre · 11 pulses per channel

DESCRIPTION

CODE

PMGE-40 · COMPLETE ELECTRONIC OIL CONTROL VALVE

47370

Ergonomic nozzle-meter with hand protector. It avoids the accidental trigger opening. It is made of high resistance plastic with fibreglass.

Composed of:

- PG-40 hand oil control valve
- MGE-40 electronic meter (see its features in the above page)

- Maximum flow: **20l/min** (according to the pumping kit)
- Maximum security pressure: 80bar
- Maximum operation pressure: 50bar
- Swivel: F1/2" GAS (BSP)
- ACR quick exchange system of the different outlet types



OUTLET TYPES

Quick exchange without threads.

■ 90° rigid free flow curve outlet	473502003
■ 90° flexible rigid curve outlet with non-drip spout	473502005
■ 60° rigid curve outlet with non-drip spout	473502002
■ Non-drip spout for the different outlet types	473002002
■ 90° flexible rigid curve outlet with manual non-drip spout	473502105
■ 60° rigid curve outlet with manual non-drip spout	473502106
■ Manual non-drip spout	473600000

PG-40 · HAND OIL CONTROL VALVE

47352

This nozzle for the lubricant supply with hand protector is made of high resistance material with fibreglass, of continuous supply and it is equipped with F1/2" GAS (BSP) rotary swivel and "quick exchange" ACR system of the different type of outlets.

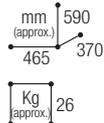
- Maximum flow: **20l/min** (according to the pumping kit)
- Maximum security pressure: 80bar
- Maximum operation pressure: 50bar

DESCRIPTION

CODE

Kits for the waste oil extraction through the oil motor suction by the level bar hole of the vehicle case.
It has built-in a suction probe-carrier, with a special adapter that is directly connected to vehicles like Mercedes-Benz and BMW, an exchanged probe set of 3, 5 and 6mm to be coupled to the rest of vehicles.

AM-10

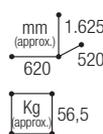


AM-10 · MOBILE AND STATIC ELECTRIC EXTRACTOR

20000

- Mobile unit with transparent vessel of 10 litre capacity
- EA-89 self-suction gear pump
- Motor power: 92W
- Voltage: 230VAC 50Hz single-phase
- Consumption: 1-2A
- Evacuation pressure: +3bar
- Depression: -0,9/-0,8bar
- Vacuum gauge
- Fluorescent 7W
- 2m synthetic suction hose Ø9 x 18mm
- Suction probe-carrier with special adapter
- Exchangeable probes of 3, 5 and 6mm
- 230VAC electric connection cable
- In-line filter for the impurities
- Suction and/or pouring reversing switch
- Wheels to make its transport easier

AM-20



AM-20 · MOBILE ELECTRIC EXTRACTOR

20100

- Portable machine of double use with transparent vessel of 10 litre capacity
- Funnel to recuperate oil by gravity
- EA-89 self-suction gear pump
- Motor power: 92W
- Voltage: 230VAC 50Hz single-phase
- Evacuation pressure: +3bar
- Depression: -0,9/-0,6bar
- Vacuum gauge
- 2m synthetic suction hose Ø9 x 18mm
- Suction probe-carrier with special adapter
- Exchangeable probes of 3, 5 and 6mm
- 230VAC electric connection cable
- In-line filter for the impurities
- Suction and/or pouring reversing switch
- 60 litre tank
- Wheels to make its transport easier

SELF-SERVICE

AM-70 · STATIC AND MOBILE ELECTRIC EXTRACTOR

20030

- Tank capacity: 50 litres
- Waste oil tank
- Vessel of 10 litre capacity
- Oil suction at room temperature
- EA-89 92W 230VAC 50Hz extraction and evacuation system
- Evacuation pressure: +3bar
- Depression: -0,9/-0,8bar
- 2m 230VAC connection cable
- Automatic starting. Self-service through coins and/or cards
- Electric operation control
- Digital service counter with memory
- Vacuum gauge
- Suction probe carrier with special adapter
- Exchangeable probes of 3, 5 and 6mm
- 3m synthetic suction hose Ø9x18mm
- In-line impurity filter



AM-125 · ELECTRIC STATIC EXTRACTOR

20020

- Tank capacity: 70 litres
- Vessel of 10 litre capacity
- 92W 230VAC 50Hz extraction and evacuation system
- EA-88 0,37kW 230VAC 50Hz self-suction gear pump
- 2m 230VAC connection cable
- Self-service through coins and/or cards
- Automatic starting. Manual service option
- Automated operation display. Electronic control
- Evacuation pressure: +3bar
- Digital service counter with memory
- Vacuum gauge - Consumption: 8-20A
- Suction probe carrier with special adapter
- Exchangeable probes of 3, 5 and 6mm
- 3m synthetic suction hose Ø9x18mm



DESCRIPTION

CODE

AMV-50 · PNEUMATIC EXTRACTOR WITH FUNNEL 20050

- Mobile kit of 50 litre capacity
- Transparent vessel of 10 litre capacity
- Funnel to recover the oil by gravity
- Pressure/Depression: +0,95 /-0,8bar
- Vacuum gauge - FF3/4" ball valve
- Security valve and pressure regulator
- 2m synthetic suction hose Ø9 x 18mm
- Suction probe carrier with special adapter
- Exchangeable probes of 3, 5 and 6mm
- 1/4" pressure connection
- Wheels to make its transport easier

AMV-51 · PNEUMATIC EXTRACTOR 20080

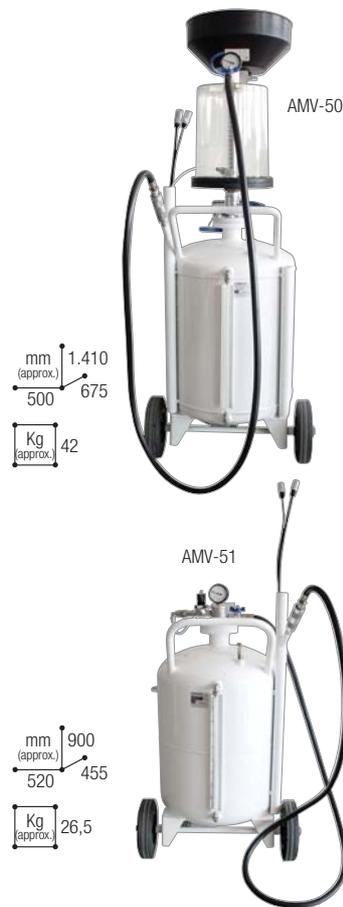
- Mobile kit of 50 litre capacity
- Pressure/Depression: +0,95 /-0,8bar
- Vacuum gauge - FF3/4" ball valve
- Security valve and pressure regulator
- 2m synthetic suction hose Ø9 x 18mm
- Suction probe carrier with special adapter
- Exchangeable probes of 3, 5 and 6mm
- 1/4" pressure connection
- Wheels to make its transport easier



■ Spare-parts for all the extractor kits

- 0,9m probe Ø3mm
- 0,9m probe Ø5mm
- 0,9m probe Ø6mm
- 1,5m probe Ø8mm
- Synthetic suction hose Ø9x18mm
- Hose spring

- 200003004
- 200003005
- 200003006
- 200003007
- 803404007
- 200203003



OIL RECUPERATORS

MOBILE OIL RECUPERATORS BY GRAVITY

Mobile oil recuperator with wheels, suitable for workshops without engine pit nor elevators.

Its emptying is made by gravity through 1/2" ball valve or suctioning connecting an oil extractor kit to the hydraulic connector. It has a folding handle.

RM-25 · MOBILE RECUPERATOR of 25 litres	20471
RM-100 · MOBILE RECUPERATOR of 100 litres	20472
RM-100 · MOBILE RECUPERATOR of 100 litres + PUMP Equipped with: EA-88 0,74kW pump + FUP-1 filter + quick coupling	20473

RF-95 · OIL RECUPERATOR FOR ENGINE PIT OF 95 LITRE CAPACITY 20480

- Slipping oil recuperator of 95 litre capacity designed to be installed in engine pits. For professional uses in the truck, bus service or quick vehicle lubrication systems.
- Non-splashing design, with big surface grid for drainage and filter, plug, tool, etc. placing
- Optimum guided system because of 4 vertical and 4 horizontal wheels. Discharge by gravity through the F1" 1/4G valve using the hose kit for its discharge by gravity not included or through the evacuation pump, using the hydraulic connector or adapters.

RA-90 · OIL RECUPERATOR BY GRAVITY 24010

Oil recuperator by gravity of 90 litre capacity for using under vehicle elevators or into an engine pit. The kit is discharged through the air connection. It has a height adjustable recuperator funnel of 15 litres.





DESCRIPTION

CODE

DMA-1 - MODULAR LUBRICANT DISPENSER

20440

Modular oil dispenser in installations where is not handy to use hose-reels. Capacity for bottles of 5 litres.

It is intended to be used to supply motor oil, transmission oil (ATF), anti-freezing, etc. It allows the installation of more than one dispenser valve with or without meter, and it can deliver up to three different types of liquid.

*The kit is supplied with 1 electronic meter with dispenser valve.

■ **Optional**

- Electronic meter kit
- Dispenser valve kit

204401001
204401002

DA-24 - PNEUMATIC OIL DISPENSER

24060

Autonomous mobile unit for lubricant supply with steel tank of 24 litres with level indicator.

The dispenser must be pressurized with air, connecting a compressor or an air line to the discharge valve of the kit. The dispenser lubricant is gradually supplied when the control nozzle is activated.

MLG-21 - LUBRICANT EXTRACTOR - DISPENSER MODULE

23190

- Integral kit for the lubricant car change. Its operation is based on the motor oil suction by the level bar hole of the vehicle oil-pan
- Electric extractor that makes the extraction through a special adapter suitable for all type of vehicles with exchangeable probes of 3, 5 and 6mm
- 2 dispensers with self-suction gear pumps for 2 types of lubricants
- Supply through the PMGE-40 complete electronic oil control valve, with hand protector, swivel and quick exchange system of the 60° rigid outlet with non-drip valve, without thread
- Control of the supplied litres
- Connection to 200 litre barrels, 3/4" metallic tube kit of 1m height, retention valve with filter built-in and 2" bung adapter to connect directly to the barrel

SELF-SERVICE

AMR-126-5 VS - OIL EXTRACTOR - DISPENSER

20060



■ **Optional**

- Thermic barrel enclosure controlled by thermostat (barrels of 200 litres)

- Lubricant extractor-dispenser specially suitable for service stations, washing boxes, repair and maintenance services, etc.
- The extraction is based on the motor oil pan suction by the vehicle oil pan level bar hole. The new oil supply and the measurement are made through oil nozzles and an electronic control system
- It is suitable for all type of vehicles, making the oil suction through probes of different diameters
- Electric operation control
- Digital service meter with memory
- Matrix printer of automatic cut
- Transparent vessel of 10 litre capacity
- Waste oil tank of 300 litres and prepared for an automatic transfer to an external tank
- 2 dispensers with self-suction gear pumps for 2 types of lubricant
- 2 supply hoses of 3m with non-drip nozzle
- Electronic display of high luminosity
- Computer system that allows: heading, oil reference, service hour, date, Km (with a blank space to type the Km), supplied litres, amount and end line
- It allows to print daily, weekly, etc. listings, with some languages and it has the possibility to be connected to PC with RS-232 port
- Protection and security switchboard

DESCRIPTION

CODE

AMC-1 - LUBRICANT EXTRACTOR - DISPENSER

20150

- It makes the oil suction of the motor oil pan through the level bar hole in all type of vehicles, through probes of different diameters
- Extraction system composed of 50 litre tank with Ventury
- Supply system composed of self-suction gear pumps
- It makes the new oil supply and measurement
- Automatic waste oil storage in a receiver tank of 500 litres
- Electronic double control system with preset and self-stopping
- It is easy to enter to the lower module with capacity for 2 barrels of 200 litres
- It controls up to 128 users. It has restricted function code
- Permanent tank/barrel stock control
- It counts the supplied litres in the tank, blocking the supply kit when the preset litres are transferred, showing the display that the tank is "EMPTY". Only the person in charge of the kit could codify the new starting.
- 12VDC halogenous lamp. Emergence stopping. Filling indicator

■ **Optional**

- Oil plate
**with vacuum discharge hose kit with the same machine*
**hydraulic non-drip connector and adapters*
- PC connection with RS-232 communication kit
Once the service is finished, the AMC-1 machine sends the supply data to the PC, storing in each service: user supplied litres, product type, stock, service list
- PC control software
- There is the option to be connected to a printer
- PC screened connection cable

AMC-3 - LUBRICANT EXTRACTOR-DISPENSER

20140

- It makes the supply through the self-suction gear pumps
- Automatic system stopping or starting because of the pressure switches
- Suction through electric self-suction pump, 3m hose (without hose-reel)
- Measurement through 2 PMGE-40 complete electronic oil control valves with 60° rigid outlet with non-drip spout



mm (approx.) 2.430
1.500 980

Kg (approx.) 510

WORKBENCHES

ELECTRIC OR PNEUMATIC WORKBENCHES

Innovator workbench with dispenser kit for two types of lubricant that allows the supply of both products from the same operation site.

Capacity to have 2 barrels of 200 litres.

Modern lubricant dispenser with 2 doors and security lock. The newest open system of the workbench upper part (worktop) makes easier the barrel replacement.

Equipped with:

- 2 hose-reels with 8m R1 Ø1/2" hose with adapters on both ends
- 2 PMGE-40 complete electronic oil control valves with 60° rigid outlet and non-drip end or 2 PG-40 hand control valves
- 2 suction kits for barrels of 200 litres

■ **BDE-400** - Electric workbench with two PG-40 hand control valves

20270

■ **BDE-400E** - Electric workbench with two PMGE-40 complete electronic oil control valves

20160

- 2 EA-88 0,74kW 230VAC self-suction gear pumps
- 230VAC connection cable

■ **BDN-400** - Pneumatic workbench with two PG-40 hand control valves

20280

■ **BDN-400E** - Pneumatic workbench with two PMGE-40 complete electronic oil control valves

20170

- 2 GM-3 ratio 1:3 pneumatic pumps
- 2 air regulators with valve built-in
- 2 compressed air outlets
- It has to be connected to a compressed air connection



BDN



BDE



mm (approx.) 1.050
1.950 750

Kg (approx.) 285

DESCRIPTION

CODE

The modular Columns are specially suitable to simplify the oil installations at any point of the workshop, reducing the assembly time. They are made in tubular profile of adjustable height to be fixed on the floor.



PNEUMATIC LUBRICANT EXTRACTION COLUMN EXTRACTION

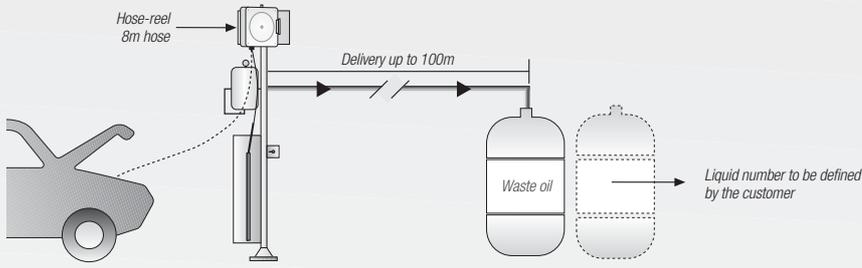
Easy operation system based on the pneumatic extraction of wasted lubricants through depression.

Composed of:

- 1 cased or open hose-reel with 8m R1 Ø1/2" hose special for oil
- Suction probe carrier nozzle with special adapter
- Extraction probes of 3, 5 and 6mm
- Mixed wall non-drip support with place for the extraction probes
- MVG-30 extraction system with 30 litre tank for the oil collection and its later evacuation to a higher capacity tank

■ **CEVG-3008** · Extraction column with 8m R1 Ø1/2" hose

23140



**The installation and the tubes are not included*



CONTROL COLUMN WITH PMGE-40 ELECTRONIC OIL CONTROL VALVE EXTRACTION SUPPLY

Wasted oil extraction and lubricant supply system through the control of the PMGE-40 electronic oil control valve.

Composed of:

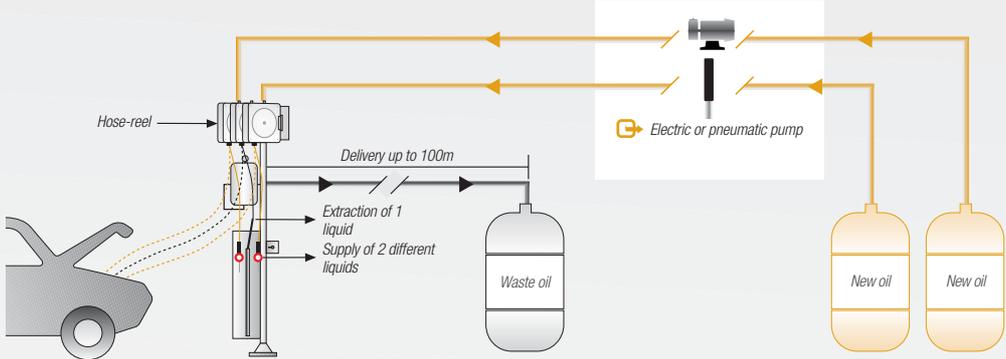
- 3 cased or open hose-reels with R1 Ø1/2" hose special for oil
 - 1 hose-reel for the oil extraction with 8m hose
 - 2 hose-reels for the oil supply with 10 or 15m hose
- 2 PMGE-40 complete electronic oil control valves
- Suction probe carrier nozzle with special adapter
- Extraction probes of 3, 5 and 6mm
- Mixed wall non-drip support with place for the extraction probes
- MVG-30 extraction system with 30 litre tank for the oil collection and its later evacuation to a higher capacity tank

■ **CLG-3010E** · Control column with PMGE-40 and 10m R1 Ø1/2" supply hose

■ **CLG-3015E** · Control column with PMGE-40 and 15m R1 Ø1/2" supply hose

23010

23030



**The installation and the tubes are not included*

DESCRIPTION

CODE



LUBRICANT COLUMN WITH PERCON CONTROL

Wasted oil extraction and lubricant supply system through PERCON control.

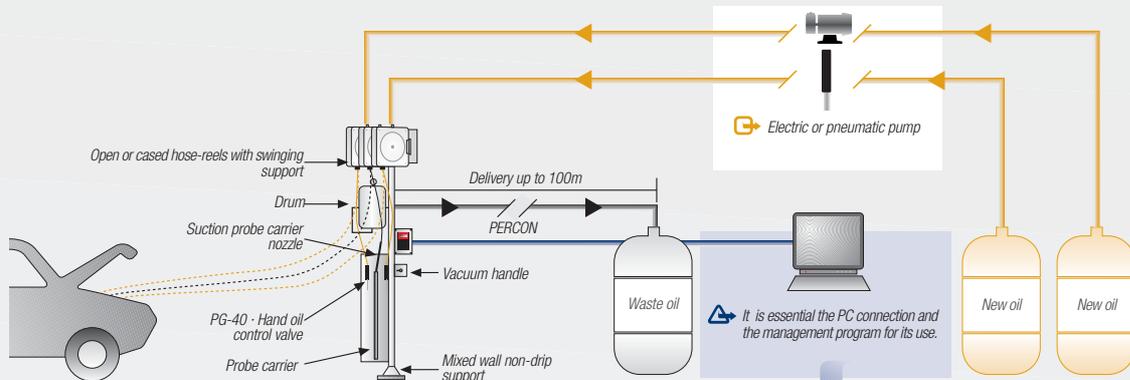
Composed of:

- 3 hose-reels with R1 Ø1/2" hose special for oil
 - 1 hose-reel for the oil extraction with 8m of hose
 - 2 hose-reels for the oil supply with 10 or 15m hose
- 2 PG-40 hand control valves
- Suction probe carrier nozzle with special adapter
- Extraction probes of 3, 5 and 6mm
- Mixed wall non-drip support with place for the extraction probes
- MVG-30 extraction system with 30 litre drum for the oil collection and its later evacuation to a higher capacity tank
- PERCON electronic controller that allows the supply control
- It has a display-repeater to see the supplied oil amount at any moment
- It is supplied with connection kit to PC

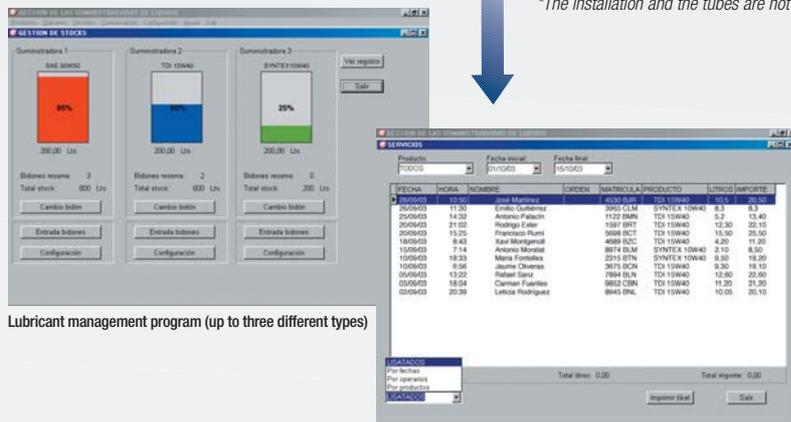
- **CPG-3010** · PERCON control column with PG-40 and 10m R1 Ø1/2" supply hose 23000
- **CPG-3015** · PERCON control column with PG-40 and 15m R1 Ø1/2" supply hose 23020

■ **Optional**

- DP-1000LX · Polythene tank of 1.000 litre capacity 37030
- DDP-700 · Wasted oil double wall tank of 700 litre capacity 37020
- DDP-1000 · Wasted oil double wall tank of 1.000 litre capacity 37000
- GM-3 PERCON pneumatic pump kit 12710
- GM-5 PERCON pneumatic pump kit 12700
- Suction Kit with metallic tube and retention valve and 1" filter, 1m height, with adapter plug for tanks of 1.000 litres 35810
- EPSON TM-U210D matrix printer 25600

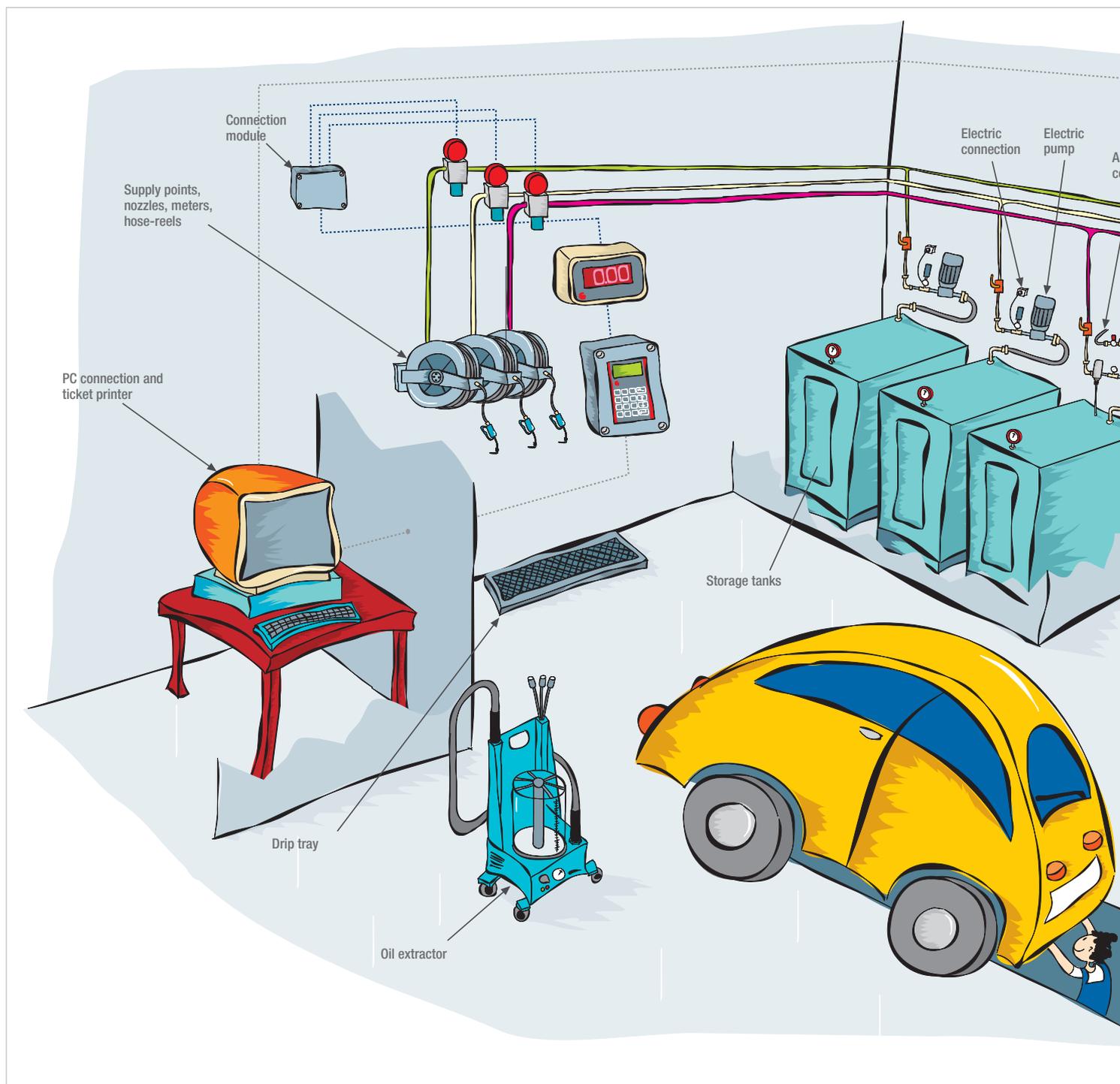


*The installation and the tubes are not included



See software functions page 96

TO KEEP THE WARRANTY AND PROTECT THE KIT YOU HAVE TO INSTALL A SAI ON LINE (UNINTERRUPTED POWER SUPPLY AND VOLTAGE STABILIZER)



DESCRIPTION

CODE

PERCON - DIGITAL FLUID CONTROL AND MANAGEMENT SYSTEM

The new system of digital fluid control provides an effective solution for the best supply service improvement of the different types of oils and other fluids in garages, workshops or similar installations.

On the installations where the lubricant is transferred from the tanks to lubrication points, these kits are necessary to optimize its output by a total control of all made operations.

The digital fluid console allows controlling so many supply points as it is necessary through different connection modules.

■ **DIGITAL FLUID CONTROL CONSOLE**

■ **CONNECTION MODULE FOR 2 SUPPLY POINTS**

■ **CONNECTION MODULE FOR 3 SUPPLY POINTS**

■ **CONNECTION MODULE FOR 4 SUPPLY POINTS**

■ **SUPPLY CONTROL SYSTEM**

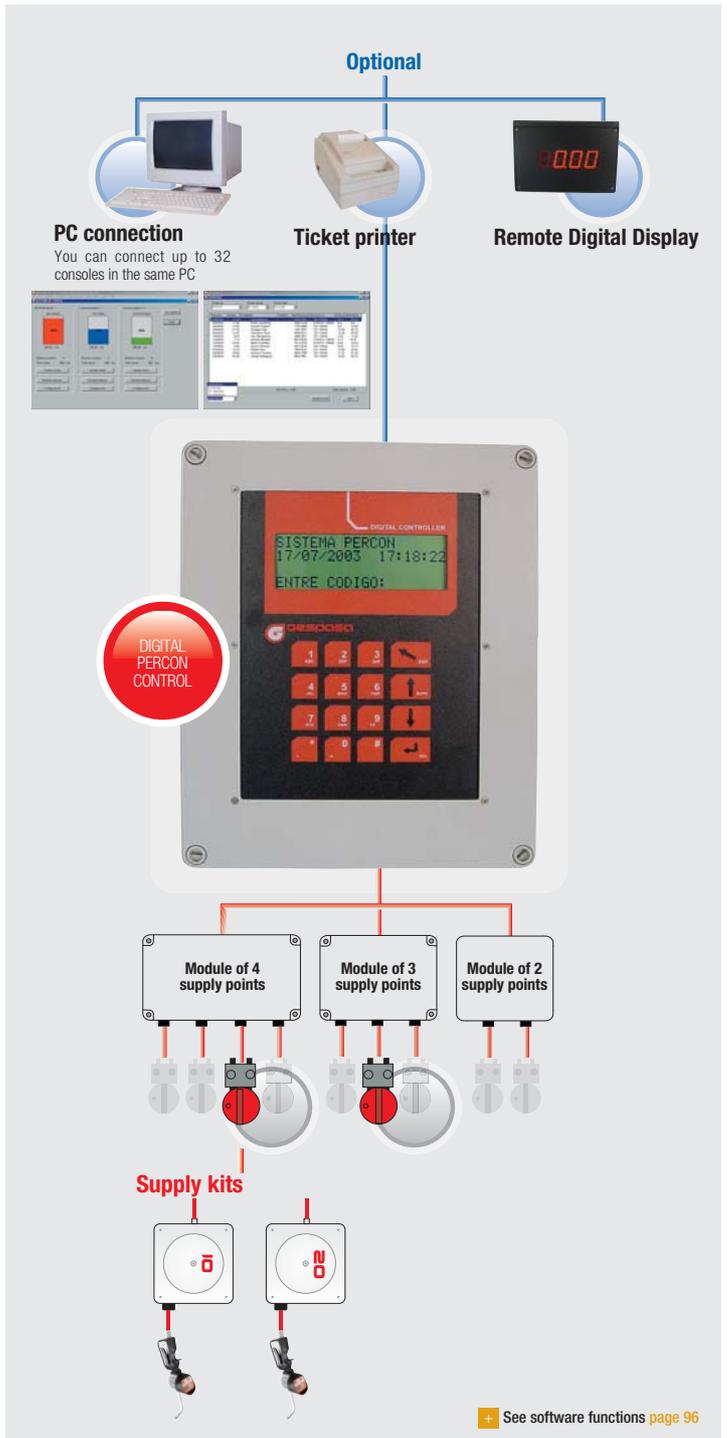
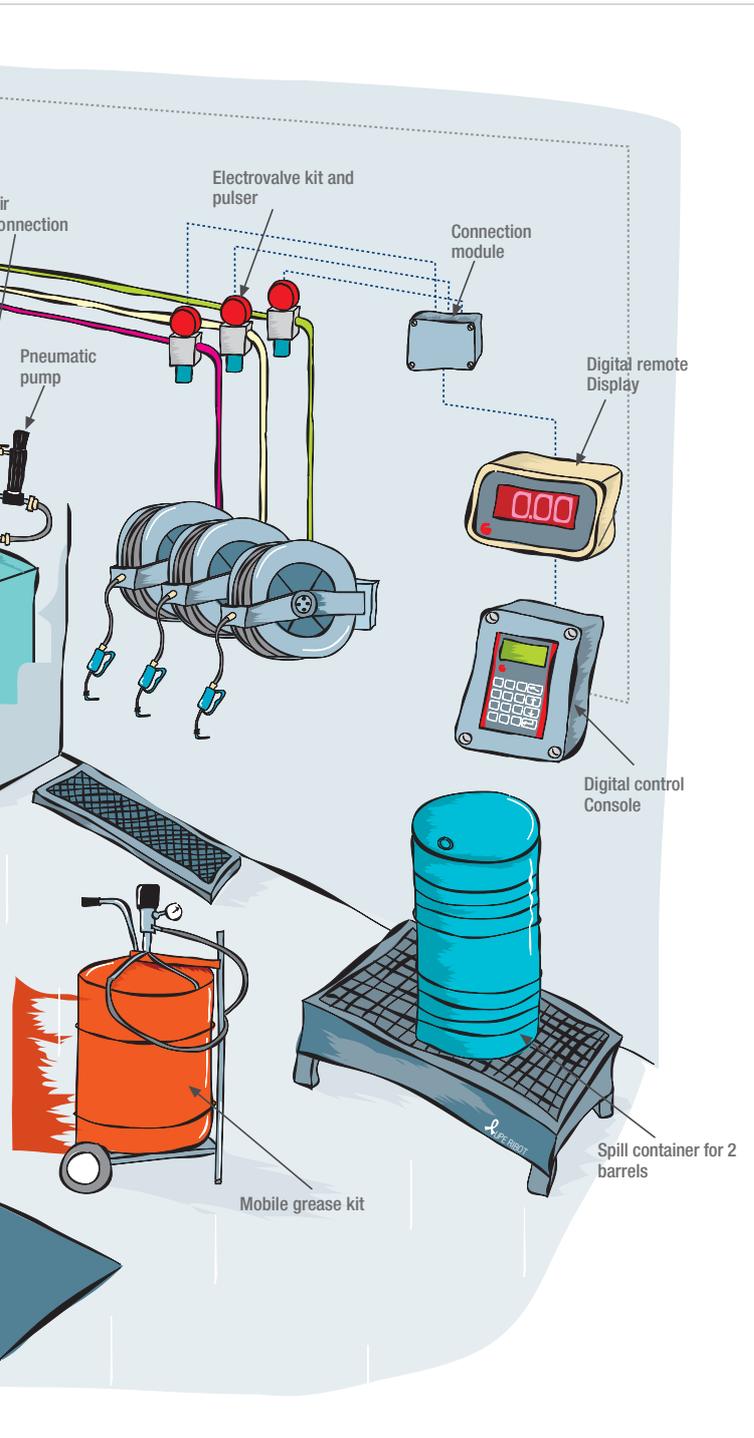
■ **ANTI-FREEZING SUPPLY CONTROL SYSTEM**

■ **DIGITAL REMOTE DISPLAY**

■ **PERCON TO PC COMMUNICATION KIT**

25630
802102015
802102014
802102016
25680
25681
25570
25610

It is essential the PC connection for its correct use



+ See software functions page 96

DESCRIPTION

CODE

Technical data:

- Voltage: 230VAC
- The digital fluid control console offers:
 - System access only to authorized personnel (personal codes)
 - Memorizing of all made operations
 - Connection to:
 - a) Printer: Ticket, hour, worker, operation order, vehicle register plate, operation kilometers, kilometers to be made on the next service, supplied product, supplied litres, price per litre, total amount
 - b) PC: Software that graphically shows all made operations, user reports, product stock, product inlets
 - c) Digital Display: It shows the supplied litres at any point
 - c) Display Digital: Muestra los litros suministrados en cualquier punto

- EPSON TM-U210D matrix printer

25600

TO KEEP THE WARRANTY AND PROTECT THE KIT YOU HAVE TO INSTALL A SAI ON LINE (UNINTERRUPTED POWER SUPPLY AND VOLTAGE STABILIZER)



+ Technical column data page 90

■ General menu

SISTEMA DE CONTROL DE FLUIDOS PERCON V2.10

Productos Operarios Consolas Servicios Comunicación Sistema Salir

■ Worker submenu

OPERARIOS

NUMERO	NOMBRE	CODIGO
1	EMILIO ASSMAR	1111
2	ELISEO JUNCOSA	5555
3	RAMON SERRANO	5463
4	JAIME ABELLO	4875
9	PULIDO SERRANO	9235

Alta

Modificación

Baja

Listado

Salir

OPERARIOS AUTORIZADOS: 7

■ Service submenu

SERVICIOS

Condiciones del listado

Operario: TODOS Fecha inicio: 01/02/05

Producto: TODOS Consola: TODOS Fecha final: 11/02/05

FECHA	HORA	ORDEN	OPERARIO	PRODUCTO	CON	LITROS	PRECIO	IMPORTE

Total servicios: 0 Total litros: 0,00 Total importe: 0,00 LISTADOS Salir

Condiciones del listado

Operario: TODOS

Producto: 1 EMILIO ASSMAR, 2 ELISEO JUNCOSA, 3 RAMON SERRANO, 4 JAIME ABELLO, 9 PULIDO SERRANO

Condiciones del listado

Operario: TODOS

Producto: 1 SAE 90, 2 ANTICONGELANTE, 3 ESTRELLA

febrero 2005

lun	mar	mié	jue	vie	sáb	dom
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	1	2	3	4	5	6
7	8	9	10	11	12	13

Hoy: 11/02/05

■ Tank submenu

DEPOSITOS

1-SAE 90 2-ANTICONGELANTE 3-ESTRELLA 4- 5- 6- 7- 8- 9- 10-

Núm. depósito: 1

Producto: SAE 90

Capacidad: 1.000 Litros

Precio: 3,25 Euros

IVA: 16 %

Alarma: 100 Litros

Color:

Aceptar modificaciones

Nivel: 700,00 Litros

Movimientos

FECHA	OP	ENTRADA	ANTERIOR	FINAL	PRECIO	PROVEEDOR
08/02/2005	E	20,00	500,00	700,00	4,000	Repsol
01/12/2004	R	500,00	900,00	500,00		
10/12/2002	E	900,00	0,00	900,00	1,250	

Regularización

Entrada

ENTRADA DE PRODUCTO

SAE 90

Fecha: 11/02/2005

Cantidad: 200,00

Precio:

Proveedor: FLIBERIA

Aceptar

Cancelar

Nuevo

Eliminar

Listado

Salir



DESCRIPTION

CODE

17.1. SUCTION / DELIVERY HOSES

R1 SUCTION/DELIVERY OIL HOSES

■ R1 01/2" suction/delivery hose	803401002
■ R1 03/4" suction/delivery hose	803401008
■ R1 01" suction/delivery hose	803406044
■ 0,8m R1 0M1/2" suction/delivery hose with adapters on both ends	803406055
■ 2m R1 0M1/2" suction/delivery hose with adapters on both ends	803406026
■ 3m R1 0M1/2" suction/delivery hose with adapters on both ends	803406027
■ 4m R1 0M1/2" suction/delivery hose with adapters on both ends	803406011
■ 6m R1 0M1/2" suction/delivery hose with adapters on both ends	803406028
■ 8m R1 0M1/2" suction/delivery hose with adapters on both ends	803406045
■ 10m R1 0M1/2" suction/delivery hose with adapters on both ends	803406029
■ 12m R1 0M1/2" suction/delivery hose with adapters on both ends	803406046
■ 15m R1 0M1/2" suction/delivery hose with adapters on both ends	803406047



■ **Optional**

- To put R1 hose adapters on both M1/2" ends
- To put R1 hose adapters on both M3/4" ends

670001008
670001009

R1 suction/delivery hose



TRANSPARENT SUCTION HOSES

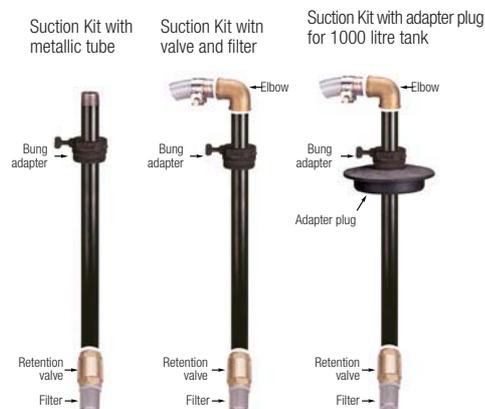
■ 016 transparent suction hose	803400004
■ 020 transparent suction hose	803400005
■ 025 transparent suction hose	803400001
■ 030 transparent suction hose	803400003
■ 040 transparent suction hose	803400002

Transparent suction hose



SUCTION KITS WITH METALLIC TUBE WITH RETENTION VALVE AND FILTER

■ Suction Kit with retention valve and 1" filter, 1,35m height	35560
■ Suction Kit with retention valve and 1" filter, 1,65m height	35550
■ Suction Kit with retention valve and 1" filter, 1,70m height	35580
■ Suction Kit with retention valve and 1" filter, 1,90m height	35570
■ Suction Kit with retention valve and 1 1/4" filter, 1,65m height	35520
■ Suction Kit with retention valve and 1 1/4" filter, 1,90m height	35530
■ Suction Kit with retention valve and 1 1/4" filter, 2,30m height	35540
■ Suction Kit with retention valve and 1" filter, 1m height, with adapter plug for tanks of 1.000 litres	35810



SUCTION KIT WITH METALLIC TUBE WITH FILTER

■ Suction Kit with 3/4" filter, 1,40m height	35690
■ Suction Kit with 3/4" filter, 1,70m height	35670
■ Suction Kit with 1" filter, 1,40m height	35700
■ Suction Kit with 1" filter, 1,70m height	35680

DESCRIPTION

CODE

17.2. METALLIC BASES AND SUPPORTS



Metallic protective holder



Pump bracket handle



Wall oil dripping holder



Swinging bracket for hose-reels



Wall pneumatic pump holder



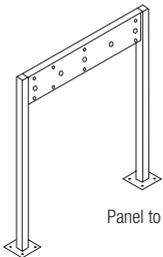
Mixed wall non-drip support



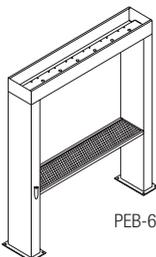
Universal Support



Universal hook set



Panel to fix pumps



PEB-6

METALLIC PROTECTIVE HOLDER

126801001

Metallic holder with drip tray to be installed on polythene tanks of 1.000 litres with metal tubular framework for all type of assemblies and pumping.

PUMP BRACKET HANDLE

030003001

Handle with lower support to be fitted to gear pumps for an easy handling. It is available in black colour.

WALL OIL DRIPPING HOLDER

24020

Metallic nozzle holder with drip tray. (Size: 150x150x600mm)

SWINGING BRACKET FOR HOSE-REELS

24050

Swinging zinc-plated wall bracket to move the hose-reel where you want.

WALL PNEUMATIC PUMP HOLDER

800404020

Zinc-plated support to install the pneumatic pumps on the wall.

UNIVERSAL SUPPORT

800404059

Galvanized sheet support to quickly fix all the pumping kits in the polypropylene tanks "with metallic framework" of 1.000 litres and double wall steel tanks. It also can be fixed on the wall. It is supplied with 4 Ø8x50mm metallic stoppers. It has a nozzle holder with rubber protection and a drip plate.

MIXED WALL NON-DRIP SUPPORT

800405007

Metallic holder with drip tray to hang 2 nozzles and the probecarrier tubes. It can be fixed on the wall or on the ground. (Size: 300x100x1.200mm)

UNIVERSAL ZINC-PLATED HOOK SET

800404049

Support to hang the hose. It is adaptable to all type of barrels and tanks.

PANEL TO FIX PNEUMATIC PUMPS AND/OR HOSE-REELS

Special support to fix pneumatic pumps and/or hose-reels (up to 4 units) at any point of the workshop or operation zone to simplify the installation. It can be fixed on the ground or on the wall through 2 vertical brackets.

■ PFP · Wall Panel

20530

■ SVP · Vertical brackets (2 units)

20540

BRIDGE PLATFORM TO ASSEMBLY HOSE-REELS IN BATTERY

It is specially suitable for the cased and/or open hose-reels battery installations in automotive workshops and industry, where it is not suitable to install hose-reels on the wall or ceiling. It makes easier the service in the nearest site to the vehicles. It allows the installation of 3 or 6 hose-reels in battery. It is supplied with a drip tray.

■ PEB-3 · Bridge platform for 3 hose-reels in battery (Size: 1.100x350x2.100mm)

20940

■ PEB-6 · Bridge platform for 6 hose-reels in battery (Size: 2.300x500x2.100mm)

20550

DESCRIPTION

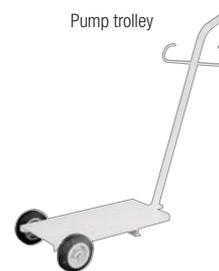
CODE

17.3. TRANSPORT TROLLEYS

PUMP TROLLEY

807900003

Trolley for pumps of different sizes.
 - Platform size: 480x205mm
 - RAL 9010 white colour



Pump trolley

C-50 · 50KG BARREL TROLLEY

68610

Trolley for 50-60Kg barrels for the lubrication and grease kits.
 It is equipped with 2 Ø125x37mm fixed wheels and 2 Ø60x24mm rotary wheels.
 It also has built-in a support for the assembly of a pneumatic pump.



C-50

C-200 · 185KG BARREL TROLLEY

68620

Trolley for 185-200Kg barrels for the lubrication and grease kits.
 It is equipped with 2 Ø250x50mm fixed wheels and 2 Ø100x25mm back rotary wheels.
 It also has built-in a support for the assembly of a pneumatic pump.



C-200

CE-200 · 185KG BARREL TROLLEY FOR HOSE-REEL

68630

Trolley for 185-200Kg barrels for the lubrication kits.
 It is equipped with 2 Ø250x50mm fixed wheels and 2 Ø100x25mm back rotary wheels.
 It also has built-in a support for the assembly of a pneumatic pump and a back platform for the assembly of a hose-reel.



CE-200

T-200 · 200KG BARREL TRANSPORTER-ELEVATOR TROLLEY

68650

This trolley is specially designed to transport, raise and handle barrels.
 - Capacity: 300Kg



■ Easy and handy raising system. It has wheels for its transport.



T-200



DESCRIPTION

CODE

DP-1000LX · POLYTHENE TANK OF 1.000 LITRES

37030

Polythene tank of high density of 1.000 litre capacity, with metallic galvanized frame and wood pallet of 4 inlets.

- It is suitable for mineral, agricultural, petrochemical and industrial oils
- Ø150mm filling hole with plug
- Emptying hole with 50mm ball valve

DA-1500 · STEEL TANK OF 1.500 LITRES

20180

Steel tank of capacity 1.500 litres for the oil storage.

- Level indicator with shut-off valve built-in
- Ventilation of 1 1/2"
- Manhole with 2" bushing with F2" charging hole
- DAE-1500 and DAN-1500 pumping kit support
- Anchorages for its transport
- It is painted with brilliant epoxid white paint

DA-5500 · CYLINDRICAL STEEL TANK OF 5.500 LITRES

37140

Vertical cylindrical steel double wall tank of 5.500 litre capacity for oil storage. It is manufactured according to UNE standards.

- Level indicator with shut-off valve built-in
- Ventilation of 1 1/2"
- Manhole with 2" bushing with charging hole
- Filling tube with 3" cut-off valve
- Anchorages for its transport
- It is painted with brilliant epoxid white paint

19 TANK ACCESSORIES



BUNG ADAPTERS

Plastic bung adapters with two types of threads: M-64x4 upper thread and 2" BSP lower thread.

2" x T1/2" Bung adapter	805200003
2" x T3/4" Bung adapter	805200004
2" x T1" Bung adapter	805200006
2" x T1 1/4" Bung adapter	805200005
2" x Ø21" Bung adapter	805200001
2" x Ø25" Bung adapter	805200002
T 2" x Ø28" Bung adapter	805200007

4" F2" ADAPTER PLUG FOR TANKS OF 1.000 LITRES

805204004

- Plug to be mounted in the upper hole of the DP-1000LX polythene tank
- Outlet thread: F2" BSP

TAC · MF3/4" NUT FOR THE ADAPTATION TO THE TANK OF 1.000 LITRE

807106003

- Nut to be mounted in the lower hole of the DP-1000LX polythene tank
- Outlet thread: MF3/4" BSP

GREASE

DESCRIPTION

CODE

MANUAL GREASE PUMPS

- Aluminium casting head with filling nipple and air release valve
- The air can be released through the filling nipple or making a half turn of the head assembly
- Maximum operation pressure: 650bar
- It is available with 150mm rigid tube or 300mm flexible hose and grease 4-jaws nipple
- It is suitable for the use of the 400cm³ grease cartridge or 500 gramme bulk filling
- Knurling cylinder for an easy subjection



BEP-500R

- **BEP-500R** of 500cc capacity
- **BEP-500 BASIC (with flexible end)** of 500cc capacity
- **BEP-500 BASIC** of 500cc capacity
- **BEP-1000 BASIC** of 1000cc capacity

68140
68430
68170
68290

LUBE-SHUTTLE MANUAL LEVER GREASE PUMPS

Grease lever cartridge pump. It has a non-slip handle. It is supplied in a special box.

- **LUBE - SHUTTLE** with rigid coupling and nipple
- **LUBE - SHUTTLE** with flexible coupling (1650bar resistance) and nipple

68110
68120

■ **Optional**- **EP-2M grease cartridge box**

24 cartridges - Lube-Shuttle system - of 400 gramme of multipurpose grease: EP-2M, NLG1-K1.2, DIN 51502 KP 2 K-30

- **EP-2L grease cartridge box**

24 cartridges - Lube-Shuttle system - of 400 gramme of special long life for bearings and sites of high friction: EP-2L, NLG1-K1.2, DIN 51502 KP 2 K-30

680002100
680002200



LUBE-SHUTTLE rigid

LUBE-SHUTTLE flexible

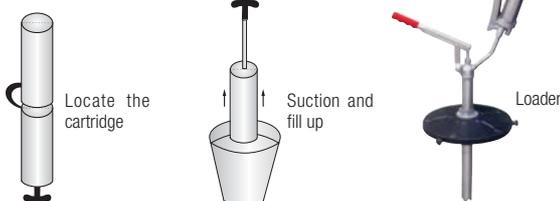
PROFESSIONAL MANUAL LEVER GREASE PUMP

68190

- Heavy constructed black powder coated cylinder
- Professional use
- Ideal for difficult access areas
- It is suitable for the use of the 400cm³ grease cartridge or the 500 gramme bulk filling
- It is duly fitted with 150mm rigid tube and the grease 4-jaws nipple
- Aluminium casting head with filling nipple
- Maximum operation pressure: 650bar
- Knurling cylinder for an easy subjection



Professional grease pump



PROFESSIONAL MANUAL VERTICAL LEVER GREASE PUMP

68180

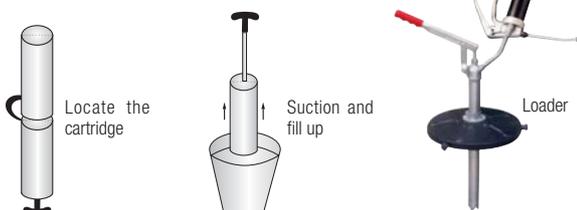
- Professional use
- It is suitable for the use of the 400cm³ grease cartridge or the 500 gramme bulk filling
- It is duly fitted with 150mm rigid tube and the grease 4-jaws nipple
- Aluminium casting head with filling nipple
- Maximum operation pressure: 400bar
- Knurling cylinder for an easy subjection

■ **Optional:**

Flexible coupling



Manual vertical grease pump



DESCRIPTION

CODE

DF-50 · HIGH PRESSURE PNEUMATIC GREASE GUN

809950008

- High pressure pneumatic nozzle of intermittent operation. It can be used with 400 gramme cartridge and with 500 gramme bulk loading. You can use the manual grease Kit to fill it.
- Its use is suitable for greases NLGI class 2 DIN 51818
- Delivery: 1 cm³ per stroke
- Ratio: 1:60
- Minimum pressure: 3bar
- Maximum pressure: 8bar
- It is delivered with flexible coupling
- 1/8 GAS thread



DF-50

MANUAL CYLINDER STOCK PROPELLER

68200

- Emptying by suction and filling
- Manual injector for the gear oil and cylinder stock transfer
- It does not need that it is primed
- Mat black powder coated cylinder with chrome plated the end heads
- It is supplied with 300mm flexible vinyl hose
- Capacity: 450cm³



Injector de valvulina

MANUAL GREASE KITS

- Grease system when there is not supply system or compressed air
- It is composed of loading pump adaptable to a barrel, follower plate, cover and service pump, which is reloaded through a drain and filling valve
- The service pump has built-in a rigid straight coupling with nipple and it reaches up to 200bar pressure
- The service pump capacity is 130cm³

- **EG-5** of 5Kg capacity
- **EG-10** of 10Kg capacity
- **EG-20** of 20Kg capacity

68320
68330
68340



Manual grease kit

EP-7 · PEDAL GREASE KIT

68310

- Industrial pedal grease pump of 7Kg capacity
- Easy loading system
- It has built-in a follower plate for the perfect grease compaction
- It is equipped with AF-2000 flexible coupling



EP-7

DESCRIPTION

CODE

PNEUMATIC GREASE PUMPS

Pneumatic high pressure grease pump for greases up to NLGI-2 that is intended for its assembly on grease barrels from 50 to 185Kg. It is suitable for mobile kits or fixed installations with a distribution outlet.

- Pressure Ratio: 1:55
- Min./max. air pressure: from 4 to 8bar
- Maximum pressure at 8bar: 425bar
- Air inlet thread: F1/4"



GN-55/200

GN-10/200GC

GN-80/200GC

Pneumatic grease pumps

	Barrel	Suction tube length	Maximum inner tank height	Weight (Kg)	
■ GN-55/25	20-25Kg	500mm	420mm	5,20	68510
■ GN-55/50	50Kg	700mm	620mm	6,20	68520
■ GN-55/200	185Kg	880mm	835mm	7,15	68530

Pneumatic grease pumps of high flow

	Barrel	Suction tube length	Maximum inner tank height	Weight (Kg)	
■ GN-10/200GC	185Kg	880mm	835mm	6,5	68540
■ GN-55/200GC	185Kg	880mm	835mm	7,5	68560
■ GN-80/200GC	185Kg	880mm	835mm	8,5	68550

EMG-25B



EMG-200



MOBILE GREASE KITS FOR BARRELS FROM 25 TO 185KG

Mobile grease kit for barrels of capacity 25, 50 or 185Kg.

Composed of:

- GN pneumatic grease pump
- Transport trolley with or without barrel
- Dust cover and follower plate
- PG-20 rigid grease nozzle with RG-3 triple rotary ball-and-socket joint
- 2,2m high pressure hose
- Complements for the connection to the air system
- Pressure regulator

■ EMG-25	Mobile grease kit for barrel of 25Kg (without barrel)	68350
■ EMG-50	Mobile grease kit for barrel of 50Kg (without barrel)	68360
■ EMG-200	Mobile grease kit for barrel of 185Kg (without barrel)	68420
■ EMG-25B	Mobile grease kit with barrel of 25Kg	68370
■ EMG-50B	Mobile grease kit with barrel of 50Kg	68380

DESCRIPTION

CODE

EMGC-200E · COMPACT MOBILE GREASE KIT WITH HOSE-REEL

68391

Mobile grease kit for barrel of 200Kg capacity.

Composed of:

- GN-55/200 pneumatic grease pump
- Transport trolley without barrel with 2 fixed and 2 mobile wheels
- Dust cover and follower plate
- PG-20 rigid grease nozzle with RG-3 triple rotary ball-and-socket joint
- 2,2m high pressure hose
- Complements for the connection to the air system
- Pressure regulator
- Open hose-reel with 15m hose



EMGC-200E

FIXED GREASE KITS (185Kg)

Grease kit for fixed or variable distances and assembly on barrel of 185Kg.

Composed of:

- GN-55/200 pneumatic grease pump
- Quick plug
- Adapter
- Flexible coupling of high pressure Ø1/4", length 6,5m
- Dust cover and follower plate
- PG-20 rigid grease nozzle with RG-3 triple rotary ball-and-socket joint
- Pressure regulator

	GN-55/200 Pneumatic pump	Accessories	Hose-reel	
■ EFG-200	•	•		68400
■ EFG-200E	•	•	•	68410



EFG-200E

DESCRIPTION

CODE

3.1. GREASE BUSHINGS

Point nipple



POINT NIPPLES

- Minimum shipment of 12 units

- Normal POINT NIPPLE
- Special long POINT NIPPLE

680006100
680006101

Zerk Bushing



ZERK BUSHING

- Minimum shipment of 12 units

680006200

Plain head bushing



GREASE PLAIN HEAD BUSHINGS

- Metallic grease bushing for greasers of plain head.
- Minimum shipment of 12 units

- Ø16mm PLAIN HEAD BUSHING for greasers
- Ø22mm PLAIN HEAD BUSHING for greasers

680006300
680006301

Grease 4-jaws bushing



GREASE 4-JAWS BUSHING

68240

- Grease 4-jaws bushing
- The jaws tightly press the greaser
- Mechanized jaws
- Strong body
- Maximum operation pressure: 650bar
- F1/8" (BSP) Thread



NOTE: All coupling bushings are available with and without retention ball valve.

DESCRIPTION

CODE

3.2. RIGID AND FLEXIBLE COUPLINGS

FLEXIBLE HIGH RESISTANCE COUPLINGS

- Breaking pressure: 1650bar
- Minimum shipment of 12 units

AFR-300	Flexible high resistance coupling without bushing, length 300mm	680006501
AFR-300B	Flexible high resistance coupling with hydraulic bushing, length 300mm	680006500
AFR-500	Flexible high resistance coupling without bushing, length 500mm	680006503
AFR-500B	Flexible high resistance coupling with hydraulic bushing, length 500mm	680006502

**The measurements match with the hose without terminals*

FLEXIBLE COUPLINGS

Flexible couplings suitable for the manual greasing. It has an inner metal braid.

- Operating pressure: 250bar
- Breaking pressure: 1000bar
- Minimum shipment of 12 units

AF-300	Flexible coupling without bushing, length 300mm	682100000
AF-300B	Flexible coupling with hydraulic bushing, length 300mm	682100001
AF-340	Flexible coupling without bushing, length 340mm	680006602
AF-340B	Flexible coupling with hydraulic bushing, length 340mm	680006601
AF-400	Flexible coupling without bushing, length 400mm	680006604
AF-400B	Flexible coupling with hydraulic bushing, length 400mm	680006603
AF-500	Flexible coupling without bushing, length 500mm	680006606
AF-500B	Flexible coupling with hydraulic bushing, length 500mm	680006605
AF-2000	Flexible coupling without bushing, length 2000mm	680006609
AF-2000B	Flexible coupling with hydraulic bushing, length 2000mm	680006608

**The measurements match with the hose without terminals*

RIGID COUPLINGS

AR-100	Rigid coupling without bushing, with antioxide treatment	680006700
AR-100B	Rigid coupling with hydraulic bushing	680006701

FLEXIBLE HIGH PRESSURE COUPLINGS

Ø1/4" flexible high pressure couplings suitable for pneumatic grease kits.

AFP-2	Ø1/4" flexible high pressure coupling, length 2,2m	680007005
AFP-4	Ø1/4" flexible high pressure coupling, length 4,5m	680007006
AFP-6	Ø1/4" flexible high pressure coupling, length 6,5m	680007000
AFP-8	Ø1/4" flexible high pressure coupling, length 8m	680007001
AFP-10	Ø1/4" flexible high pressure coupling, length 10m	680007002
AFP-12	Ø1/4" flexible high pressure coupling, length 12m	680007003
AFP-15	Ø1/4" flexible high pressure coupling, length 15m	680007004

Flexible couplings



Rigid couplings



DESCRIPTION

CODE

3.3. GREASERS



CSE-485 - Greaser box

CSE-485 · GREASER BOX

808700500

Box with 485 pieces of greasers of more current use

Thread	E-5	E-25	E-30
6-100	75	25	25
8-100	50	25	25
1-125	50	25	25
10-100	40	25	25
1/8 GAS	40	25	25
1/4 GAS	20	15	15



E-5 · Thread greaser



E-10 · Greaser at pressure



E-20 · Long thread greaser



E-25 · 45° greaser



E-30 · 90° greaser

E-5 · THREAD GREASER

■ Thread 6-100	Box of 100 units	808700201
■ Thread 7-100	Box of 100 units	808700202
■ Thread 8-100	Box of 100 units	808700203
■ Thread 8-125	Box of 100 units	808700204
■ Thread 10-100	Box of 100 units	808700205
■ Thread 10-125	Box of 100 units	808700206
■ Thread 10-150	Box of 100 units	808700207
■ Thread 12-100	Box of 50 units	808700208
■ Thread 12-125	Box of 50 units	808700209
■ Thread 12-150	Box of 50 units	808700210
■ Thread 12-175	Box of 50 units	808700211
■ Thread 1/4W	Box of 100 units	808700212
■ Thread 5/16W	Box of 100 units	808700213
■ Thread 1/8 GAS	Box of 100 units	808700020
■ Thread 1/4 GAS	Box of 100 units	808700219

E-10 · GREASER AT PRESSURE

■ Pressure 6mm	Box of 100 units	808700301
■ Pressure 8mm	Box of 100 units	808700302
■ Pressure 10mm	Box of 100 units	808700303

E-20 · LONG THREAD GREASER

■ Thread 6-100	Box of 100 units	808700401
■ Thread 1/4 SAE	Box of 100 units	808700415

E-25 · E-30 · GREASERS

	E-25 45° Greaser	E-30 90° Greaser
■ Thread 6-100	808700001	808700101
■ Thread 7-100	808700002	808700102
■ Thread 8-100	808700003	808700103
■ Thread 8-125	808700004	808700104
■ Thread 10-100	808700005	808700105
■ Thread 10-125	808700006	808700106
■ Thread 10-150	808700007	808700107
■ Thread 12-100	808700008	808700108
■ Thread 12-125	808700009	808700109
■ Thread 12-150	808700010	808700110
■ Thread 12-175	808700011	808700111
■ Thread 1/4W	808700012	808700112
■ Thread 5/16W	808700013	808700113
■ Thread 3/8W	808700014	808700114
■ Thread 1/4 SAE	808700015	808700115
■ Thread 5/16 SAE	808700016	808700116
■ Thread 3/8 SAE	808700017	808700117
■ Thread 1/8 GAS	808700018	808700118
■ Thread 1/4 GAS	808700019	808700119

DESCRIPTION

CODE

3.4. DUST COVERS AND FOLLOWER PLATES

DUST COVERS

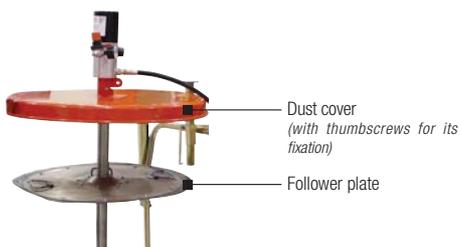
- The dust cover is designed to cover the grease barrels and protect them from the dust and dirt.
- The cover has a hole where you can fit a pneumatic pump or a suction hose.
- The product is equipped with 7 thumbscrews: 1 to adapt the upper hole to the suction tube or hose and the other 6 screws (3 long and 3 short) to fix the cover to the barrel.

T-20	365mm for barrel of 20-25Kg	680006900
T-50	430mm for barrel of 50Kg	680006901
T-200	600mm for barrel of 200Kg	680006902



Dust cover

■ Placing of the dust cover and the follower plate



FOLLOWER PLATES

- The follower plate is placed inside the barrel, on the grease level.
- Its purpose is to make the grease level uniformly goes down, emptying the barrel and cleaning the grease of its wall.
- It has a central hole to insert a pneumatic pump or a suction hose, a perimetric rubber to be well-adapted to the barrel walls and a handle for its easy placing.

P-20	for barrel of 20Kg Ø inner 265-285	680006800
P-50	for barrel of 50Kg Ø inner 350-385	680006801
P-200	for barrel of 200Kg Ø inner 550-590	680006802



Follower plate

GREASE GUNS AND SWIVEL JOINTS

GREASE GUNS

Metallic supply gun, made of steel, to be used on high pressure grease systems or kits.

The gun must be assembled along with the rotary swivel to avoid twisting of the high pressure hose and to make the greasing point easier at any position.

PG-20 - RIGID GREASE GUN	24040
PG-25 - FLEXIBLE GREASE GUN	24030



PG-20

PG-25

RG-1 - ROTARY SWIVEL

249900001

Swivel to eliminate the twistings of the high pressure hose.

- Thread MF1/4" GAS (BSP)



RG-1

RG-3 - TRIPLE ROTARY SWIVEL

249900002

Triple rotary swivel that it is advisable to connect to the grease gun to eliminate the twistings of the high pressure hose and make the greasing easier at any position.

- MF1/4" GAS (BSP) thread



RG-3

DESCRIPTION

CODE

Ø1/4" open or cased hose-reels for many applications, specially suitable for installations. They make easier the fluid supply at any operation point. They can be mounted on the wall, tanks, ceiling or anchored through fixed or swinging brackets.

Heavy-duty metallic construction with movable arms to achieve a best operation at any position of assembly.

- Resistance 200bar

EG - Open hose-reel

**Ø1/4" OPEN GREASE HOSE-REEL (WITHOUT HOSE)**

■ Capacity up to 15m

807302000

OPEN GREASE HOSE-REEL WITH Ø1/4" HOSE WITH ADAPTERS ON BOTH ENDS

Open hose-reel with R1 Ø1/4" grease hose.

- EG-06 with 6m Ø1/4" hose
- EG-08 with 8m Ø1/4" hose
- EG-10 with 10m Ø1/4" hose
- EG-12 with 12m Ø1/4" hose
- EG-15 with 15m Ø1/4" hose

807302002
807302003
807302001
807302004
807302005

**Ø1/4" CASED GREASE HOSE-REEL (WITHOUT HOSE)**

807303000

High resistance cased hose-reel for Ø1/4" hose with swinging bracket built-in.

- Capacity up to 15m
- Resistance 200bar

EGC - Cased hose-reel

**Ø1/4" CASED GREASE HOSE-REEL (WITH HOSE)**

Cased hose-reel with R1 Ø1/4" grease hose.

- EGC-06 with 6m Ø1/4" hose with swinging bracket
- EGC-08 with 8m Ø1/4" hose with swinging bracket
- EGC-10 with 10m Ø1/4" hose with swinging bracket
- EGC-12 with 12m Ø1/4" hose with swinging bracket
- EGC-15 with 15m Ø1/4" hose with swinging bracket

807303001
807303002
807303003
807303004
807303005

Swinging bracket

**SWINGING HOSE-REEL BRACKET**

24050

Swinging zinc-plated wall bracket to move the hose-reel on the position that you want.

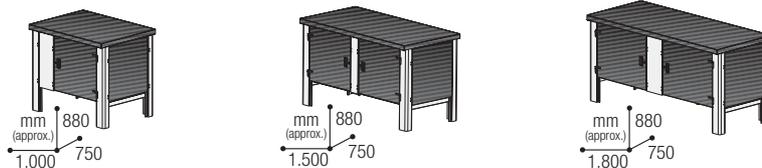
WORKSHOP EQUIPMENTS

DESCRIPTION

CODE

WORKBENCH

- Modular workbench available in three different sizes:



- Made of iron sheet of DD-11 and DC-01 quality with 1,5 and 2mm thickness
- Powder-epoxi coating, kiln drying and with previous submerged part pickling, getting a high quality finish, both in flat surfaces and corners
- All the workbench is dismantable and its assembly is easy.
- It is opened when the user wants and according to his organization needs.
- It is not necessary to drill the fixations and hinges. The interior of the table has built-in supports and slots to adapt the drawers.
- From an open SIMPLE WORKBENCH, with 1 crossbar in the lower part and 1 or 2 trays, the MOLTO system allows that the user could complete a CLOSED WORKBENCH with doors and panels. This installation of many accessories is composed of: trays, interior slots panels for supports (toolholder, drills, drawers, ...), exterior pieces with electric and/or air supply system and 2, 4 or 6 blind or slot (exterior and interior) doors to put the supports. You can achieve a total tool organizer surface 4 and 5 times superior to the workbench length, without occupying more space in your workshop, garage or factory.

STANDARD CONFIGURATIONS

BASIC WORKBENCH

■ BM-1000 · 1000mm	70180
■ BM-1500 · 1500mm	70190
■ BM-1800 · 1800mm	70200

BASIC WORKBENCH + 2 TRAYS

■ BM-1000-B · 1000mm	70181
■ BM-1500-B · 1500mm	70191
■ BM-1800-B · 1800mm	70201

BASIC WORKBENCH + 2 TRAYS + FRONTAL BLIND DOORS + LATERAL AND BACK BLIND PANELS

■ BM-1000-1PC · 1000mm	70182
■ BM-1500-2PC · 1500mm	70192
■ BM-1800-2PC · 1800mm	70202

BASIC WORKBENCH + 2 TRAYS + FRONTAL AND LATERAL BLIND DOORS WITH INTERIOR SLOT PANEL (BLIND BACK)

■ BM-1000-3PIR · 1000mm	70183
■ BM-1500-4PIR · 1500mm	70193
■ BM-1800-4PIR · 1800mm	70203

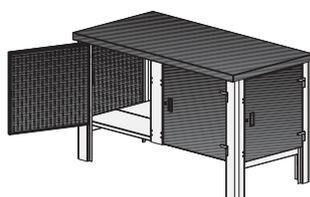
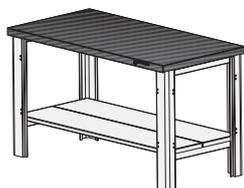
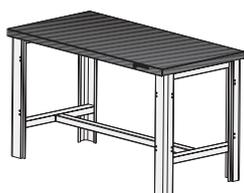
BASIC WORKBENCH + 2 TRAYS + FRONTAL AND LATERAL SLOT DOORS WITH INTERIOR SLOT PANEL (BLIND BACK) + SOCKETS

■ BM-1000-3PRIRE · 1000mm	70184
■ BM-1500-4PRIRE · 1500mm	70194
■ BM-1800-4PRIRE · 1800mm	70204

DRAWER STORAGE MODULES

Metallic book with drawers painted in high quality matt. There are three different heights: 275mm, 525mm and 830mm, and different types of combinations and drawer numbers.

Book height	Drawer nr.	Drawer depth	
275mm	2	2 of 100mm	70300000
	4	2 of 125mm 2 of 100mm	70330000
525mm	5	3 of 75mm	70320000
		1 of 125mm 1 of 100mm	
	6	6 of 75mm	70310000
830mm	10	10 of 75mm	70340000
	6	6 of 125mm	70360000
		7	3 of 100mm 2 of 150mm 2 of 75mm



DESCRIPTION

CODE

METALLIC TOOL CABINETS

- METALLIC TOOL CABINETS presented in three models:

■ AH1000 · 1000x207x750mm · It includes: H-20 Kit	701904056
■ AH1500 · 1500x207x750mm · It includes: H-20 Kit	701904057
■ AH1800 · 1800x207x750mm · It includes: H-40 Kit	701904058

- Made of iron sheet of DD-11 and DC-01 quality with 1 and 1,5mm thickness
- Roller blind doors with METALLIC sheets, with horizontal opening in two sections and key locking
- Interior, frontal and lateral slot panels to hang tool-holder supports, drills, PVC drawers, etc.
- Powder-epoxi coating, kiln drying and with previous submerged part pickling, getting a high quality finish, both in flat surfaces and corners



The sheet turn part of the door is internally protected by the slot panels laterals.

UNIVERSAL SLOT PANELS

- Slot panel to hang on the wall. It is suitable to hang tools, home tools, gardening tools, etc. It is available in horizontal or vertical.

■ □ Panel-H · 1000x500mm	701904023
■ □ Panel-H · 1000x800mm	701904024
■ □ Panel-H · 1500x800mm	701904022
■ □ Panel-H · 1800x800mm	701904025
■ □ Panel-V · 500x1500mm	701904026
■ □ Panel-V · 800x1500mm	701904027
■ □ Panel-V · 500x1800mm	701904028
■ □ Panel-V · 800x1800mm	701904029

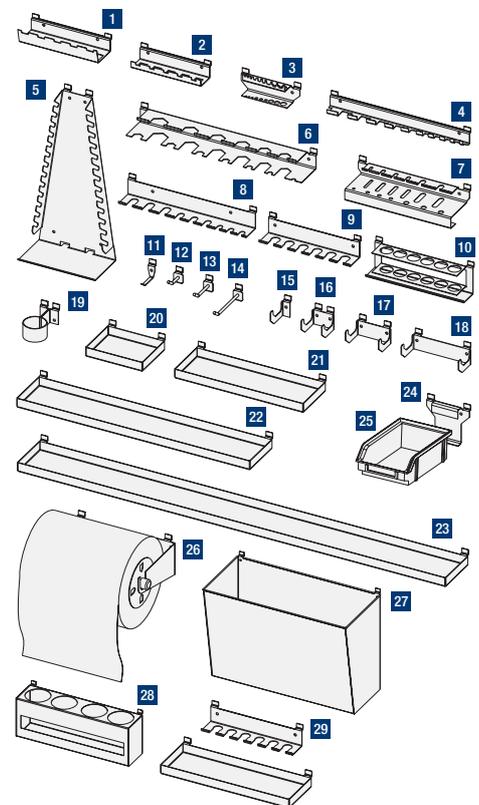


TOOL-HOLDER ACCESSORIES

■ AC1	Support of 5 pliers · mechanic (big)	701904010
■ AC2	Support of 5 pliers · electrician (little)	701904011
■ AC3	Support of 9 hexagon socket screw keys (ALLEN)	701904012
■ AC4	Support of 10 double ended ring spanners	701904013
■ AC5	Support of 12 fix spanners	701904014
■ AC6	Support of 13 tubular box wrenches	701904015
■ AC7	Support of 14 screwdrivers	701904016
■ AC8	Support of 9 files	701904017
■ AC9	Support of sockets	701904059
■ AC10	Support of 6 spikes	701904018
■ AC11	Horizontal short hook (36mm) (bag of 5 units)	701904038
■ AC12	Cylindrical short hook (40mm) (bag of 5 units)	701904039
■ AC13	Cylindrical medium hook (57mm) (bag of 5 units)	701904040
■ AC14	Cylindrical long hook (96mm) (bag of 5 units)	701904041
■ AC15	Simple hook (bag of 5 units)	701904042
■ AC16	Double hook (45mm) / Hammer support (bag of 5 units)	701904043
■ AC17	Double hook (70mm) / Radial support (bag of 5 units)	701904044
■ AC18	Double hook (124mm)	701904045
■ AC19	Drill support	701904032
■ AC20	120mm Tray	701904020
■ AC21	275mm Tray	701904030
■ AC22	500mm Tray	701904031
■ AC23	1000mm Tray	701904021
■ AC24	PVC drawer support	701904019
■ AC25	PVC drawer	701904036
■ AC26	Paper roll support	701904033
■ AC27	Metallic wastepaper basket	701904034
■ AC28	Support of 4 Sprays	701904035
■ AC29	Support of sockets (AC9) + 275mm Tray (AC21)	701904037

■ H-20 Kit	Standard kby (units): 1 AC3+1 AC4+1 AC5+1 AC6+1 AC7+ 20 AC11 +1 AC20	701904046
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■ H-40 Kit	Standard kby (units): 1 AC1+1 AC3+1 AC4+1 AC5+1 AC6 + 1 AC7 + 1 AC8 + 40 AC11+1 AC20	701904061
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If you buy the basic kit you could add the different components for customized configurations, e.g. to pass a basic workbench to a workbench with 6 doors, simple or slot panels to hang the accessories and tools, exterior and interior, ... PLEASE, SEE THE MOLTO MODULAR WORKBENCH CATALOGUE.



IG-14



IG-24



NP-24



NP-50 INOX



EF-10



EFN-10

DESCRIPTION

CODE

AIR SPRAYERS

Autonomous portable air kit. It is suitable for automotive workshops and industry, where there is no possibility of connection to an air system or compressor.

■ **IG-14 • AIR SPRAYER**

- Capacity: 14 litres
- Manometer: 0-10bar

24120

■ **IG-24 • PROFESSIONAL AIR SPRAYER**

- Capacity: 24 litres
- Manometer: 0-10bar
- EC approved
- It has two back wheels to make easier its transport

24110

NP-24 • PRESSURE SPRAY-PRODUCER

24070

Mobile kit suitable for automotive workshops and industry with a tank of capacity 24 litres.

It has built-in a level indicator and a spray nozzle with expandable spiral hose.

NP-50 INOX • STAINLESS PRESSURE SPRAY-PRODUCER

24080

Mobile stainless pressure spray-producer suitable for automotive workshops and industry with a tank of capacity 50 litres.

It has built-in a level indicator and a spray nozzle with expandable spiral hose.

EF-10 • PNEUMATIC BRAKE BLEEDER (2 chambers)

24100

Pneumatic stainless brake bleeder kit with a tank of capacity 10 litres with two inner chambers. It is suitable for automotive workshops and industry.

It is supplied with:

- 2 plastic bottles of 1 litre
- 1 flexible delivery hose
- 1 plastic funnel

■ **Optional**

- Plug with universal support for brake tank (car)

240905000

EFN-10 • PNEUMATIC BRAKE BLEEDER (3 chambers)

24090

Pneumatic stainless brake bleeder kit with a tank of capacity 10 litres with three inner chambers that allow a higher operation autonomy than the EF-10 bleeder. It is suitable for automotive workshops and industry. It has a pressure regulator valve calibrated at 10bar.

It is supplied with:

- 2 plastic bottles of 1 litre
- 1 flexible delivery hose
- 1 plastic funnel

■ **Optional**

- Plug with universal support for brake tank (car)

240905000

DESCRIPTION

CODE

3.1 PRESSURE REGULATORS-GREASERS

RP-1 · PRESSURE REGULATOR

801902001

It keeps the air pressure selected between 0 to 12bar, eliminating the overpressure risks. It has regulation handle and unblocking device. Pump inlet adapter with mains tap. This manometer is graduated in bar and PSI.

- MF1/4" connection



RP-1

RPL-1 · REGULATOR-GREASER-PURIFIER

801902002

Regulator kit with filter and greaser combined.

It has the same features as the RP-1 pressure regulator and the filters in line protect the valves and the pump motors or pneumatic tools from breakdowns and wears because of the particles in suspension and the condensation water that there is in the compressed air. The greaser is used so that the component life of an air line and pumps or pneumatic tools substantially improves through the oil injection by Ventury effect in the air supply line.



RPL-1

3.2. HOSE-REELS

OPEN AIR/WATER HOSE-REEL

Automatic stainless corrosion heavy-duty air/water hose-reel, with hose.

It has a mobile arm. It has a device of quick hose collection, improving the operation site and its maintenance because the hose is always collected.

- Inlet thread: 3/8"
- Resistance: 30bar
- It is suitable for automotive workshops and industry

■ EI-10 with 10m Ø3/8" hose

807304001

■ EI-15 with 15m Ø 3/8" hose

807304002

Open air/water hose-reel



CASED AIR/WATER HOSE-REEL

807304003

Automatic metallic corrosion heavy-duty air/water hose-reel.

It has a device of quick hose collection, improving the operation site and its maintenance because the hose is always collected.

- Inlet thread: 1/4"
- Resistance: 20bar
- It is suitable for automotive workshops and industry

Cased air/water hose-reel



WORKSHOP ACCESSORIES

STEEL OILCAN

68230

- Cylindrical oil tank
- Painted steel
- Oilcan volume: 500cm³
- Dosing tube length: 175mm



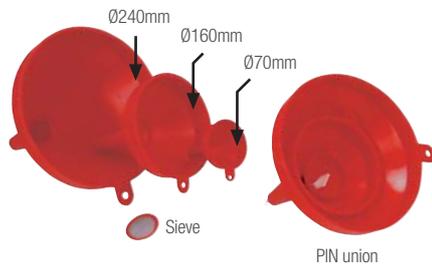
Steel oilcan



Spill funnel



Meter container



PIN union

DESCRIPTION

CODE

PLASTIC SPILL FUNNEL

46080

- Heavy-duty polyethylene funnel with filter and flexible outlet
- Funnel of Ø225mm ^ S-136/9

METER CONTAINER WITH FLEXIBLE DOSING TUBE

38280

- Capacity: 5 litres

FUNNELS

Made of polypropylene, specially suitable for hydrocarbon and chemical products use
(please, ask for other liquids).

■ Ø240mm in plastic	460000000
■ Ø160mm in plastic	460500000
■ Ø70mm in plastic	460100000
■ Ø52mm funnel sieve (Ø240 and 160mm stainless mesh) of 352 micron	460000001
■ PIN funnel union (for 3 funnels)	469000000
■ Set of 3 funnels of different diameter with PIN union	460700000

VEHICLE DECONTAMINATION

Non-official basic informative summary, relating to the fluid handling of the Standards in the scrap yards.

For more information, please see the Real Decreto 1383/2002, December 20th, about vehicle management at the end of its useful life.

General requirements

Everywhere and during all the process, including the reception, decontamination and subsequent manipulations, you should have some covered zones adequated to the vehicle number, with waterproof floor and installations and kits for the spill picking and water treatment.

In the decontamination zone you should also have:

- Zone set aside for storing the contaminated components taken away from the vehicle (specially those impregnated of oil)
- Zones suitable for storing used tyres, which include safety and emergency measures derived from excessive storages
- Appropriate containers to store the batteries (with the electrolyte neutralization there or near in the event of an accident), filters and PCB/PCT condensers.
- Adequate tanks to separately store the vehicle fluids at the end of its useful life, according to R.D. 1523/99 "Reglamento de productos petrolíferos MI-IP-03/04 y reglamento de productos químicos ITC-MIE-APQ" (MI-IP-03/04 oil product rules and ITC-MIE-APQ chemical product rules)

Decontamination operations of the vehicle at the end of its useful life:

- Extract and remove in a controlled way the following dangerous waste products: fuel, transmission liquid and other hydraulic oils, motor oils (differential and transmission casing - unless it is reused all the set, then it can be maintained lubricated), cooling, brake and anti-freezing fluids; starting batteries, oil and fuel filters, brake shoe with asbestos and components with mercury; air conditioning system fluids, liquid gas tank and any other dangerous fluid that is not necessary for the reuse of the element that takes part.

For this reason, GESPASA has developed **some solutions** to satisfy the needs of our customers according to the level of the installation complexity that you want to make and comply with the rules. *In addition we are offering a set of accessories to make the decontamination tasks more easier.*

1

BASIC SOLUTION: VEHICLE DECONTAMINATION KIT

+ Page 125



2

MODULAR SOLUTION: VEHICLE DECONTAMINATION PORTICO

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3

CUSTOMIZED SOLUTION: VEHICLE DECONTAMINATION INSTALLATION

+ Page 127



4

MOBILE SOLUTION: MOBILE EXTRACTION KIT FOR HEAVY PLANT

+ Page 128

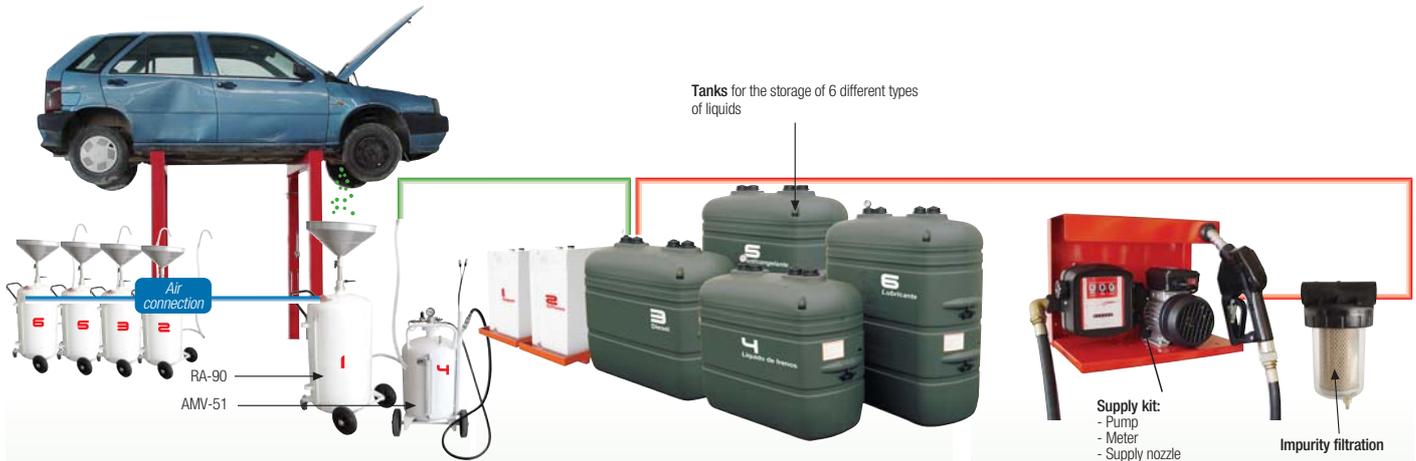


BASIC SOLUTION

VEHICLE DECONTAMINATION KIT

Vehicle decontamination kit specially suitable for complying with the environment rules about the fluid extraction and storage of the Real Decreto 1383/2002, December, 20th, about the vehicle management at the end of its useful life.

It allows a total decontamination of the different liquids of the vehicle by gravity, putting it in an elevator or an engine pit, and suction, in the event of brake fluid, and posterior storage in tanks separately.



Composed of:

LIQUID RECUPERATOR

> **RA-90** · 5 units of mobile recuperation by gravity of 5 different liquids

PNEUMATIC EXTRACTOR

> **AMV-51** · 1 unit of pneumatic mobile extraction for brake fluid
 - Vacuum gauge
 - Exchangeable probes of 3, 5 and 6mm

STORAGE

- 4 approved double wall tanks (they do not need any tray)
 - 2 Metallic petrol tanks

Please, ask for the most adequate tank for each product

SUPPLY KIT

- **AG-46** diesel pump or **AG-500 EExd** petrol pump with **MG-80** mechanical litre meter
 - **Metallic base**
 - **PA-60** automatic nozzle
 - **FG-2** or **FG-2G** (for petrol) filter of 2 litre capacity

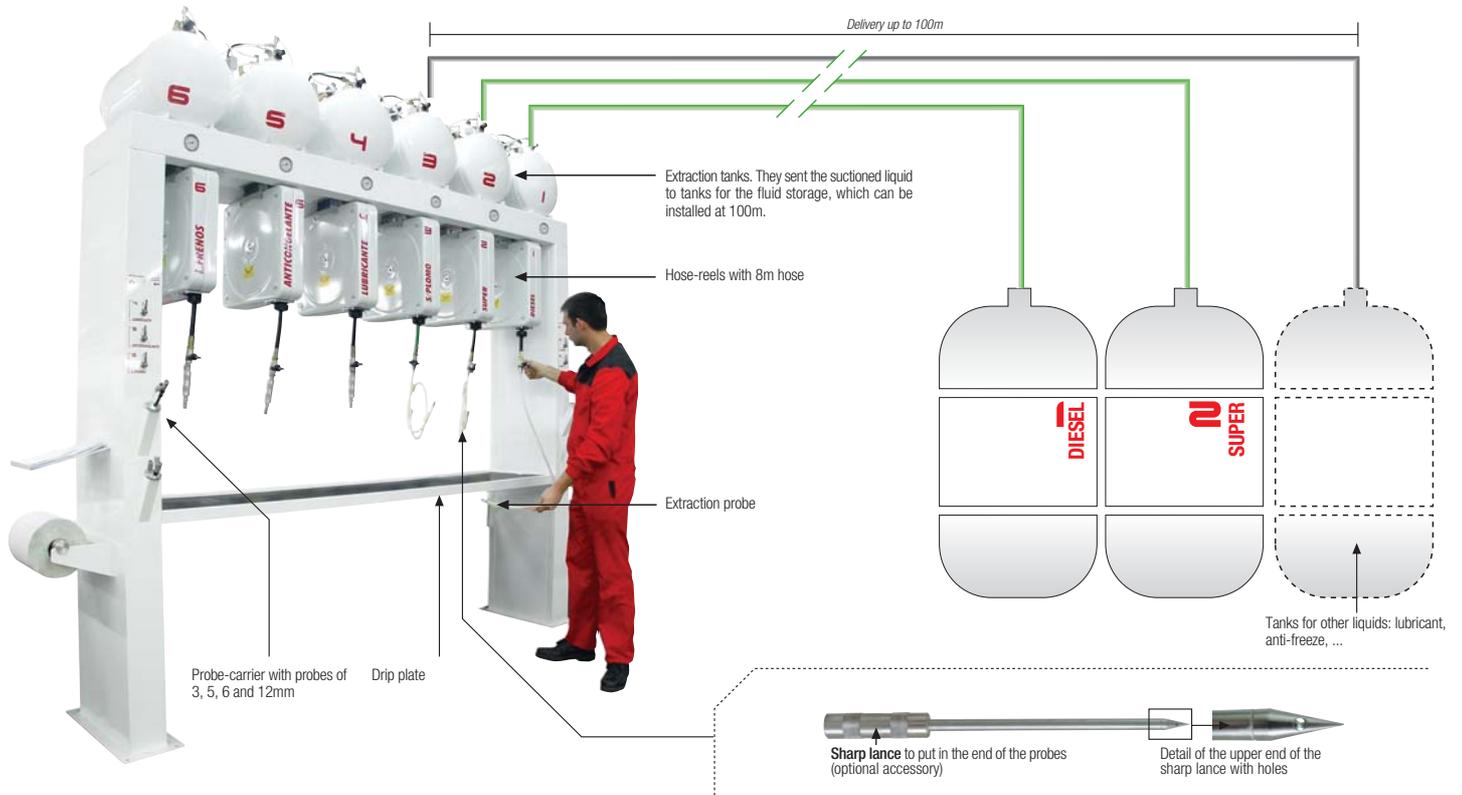


MODULAR SOLUTION

VEHICLE DECONTAMINATION PORTICO

2

Vehicle decontamination portico that allows the fluid extraction of a vehicle through probes from 3 to 12mm and posterior storage separately. Customized installation of the number of liquids to be extracted.



PUT THE VEHICLE IN A BENCH OR ELEVATOR

CONNECT THE HOSES IN EACH LIQUID OUTLET TO MAKE THE EXTRACTION

EXTRACTION

There are different ways of making the extraction of each liquid

1 Fuels

- A. We can cut the fuel tube and directly connect it to the hose-reel hose.
- B. Through the pneumatic drill nozzle (optional) connected to the suction hose, we punch the tank and directly suction the fuel.

- Once the suction is finished, disconnect the probe and put it on the probe-carrier hole.

2 Brake fluid

- We connect the probe in one of the back bleeder valve of the brake fluid circuit of the vehicle. Loosen the bleeder valve and open the hose suction valve

3 Lubricant

- A. We put the probe in the level bar hole. The lubricant will be directly suctioned.
- B. We are picking up the lubricant by gravity, through the oil-pan plug, with a gravity recuperator. Suction the stored liquid of the recuperator with the hose-reel probe of the portico.

4 Anti-freeze

- A. We pick up the anti-freeze/coolant by gravity. It is directly suctioned from the recipient through the portico hose-reel probe.
- B. We punch the tube through the sharp lance (optional). The lance has built-in a hole where it will directly suction.

The liquids are suctioned because of the depression caused by the vacuum kits of the portico.

In each extraction we have to send the fluid to storage tanks, turning the handle of the portico column to the emptying position.

Each suction hose has built-in a filter in line, to avoid the inlet of solid particles in the kit that can reduce its output because of the hose blocking.

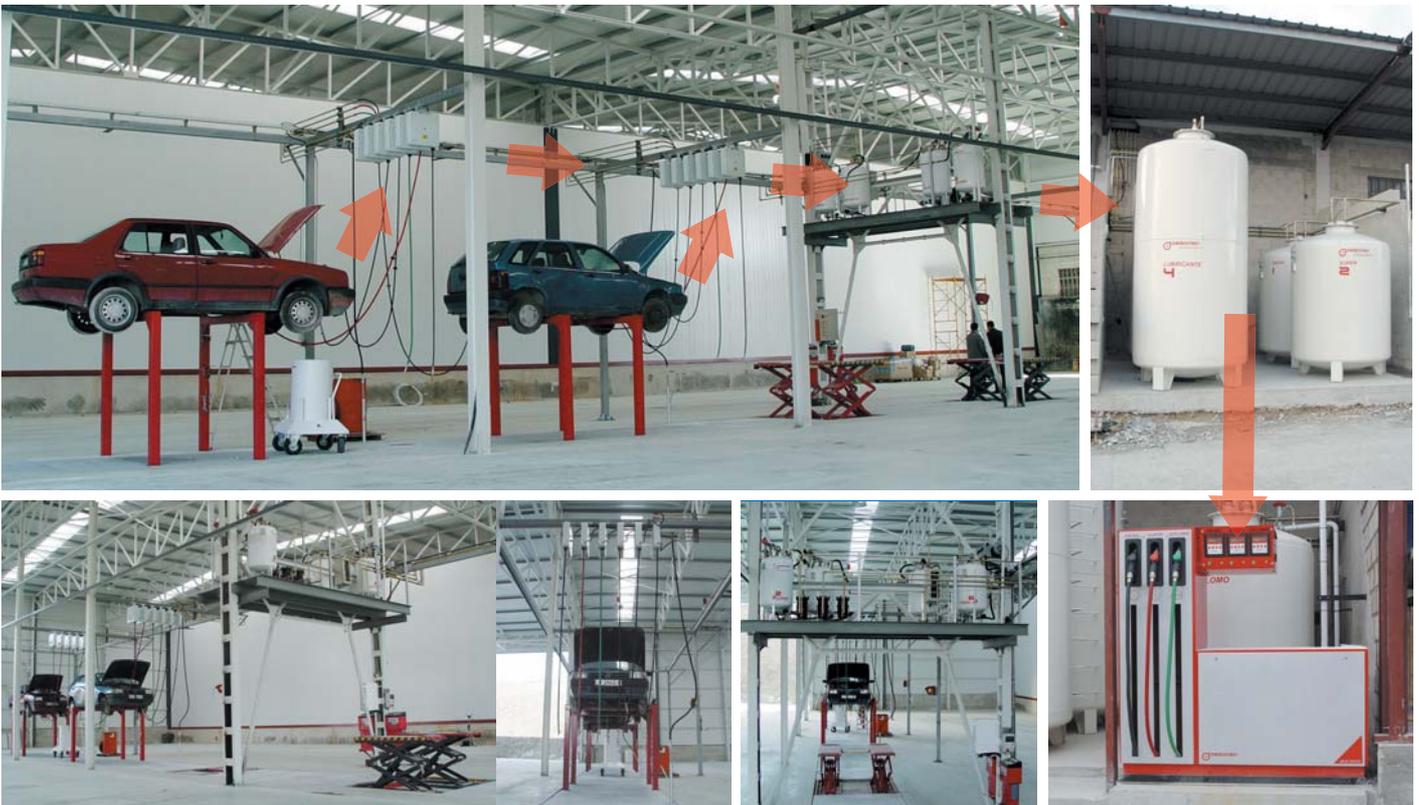
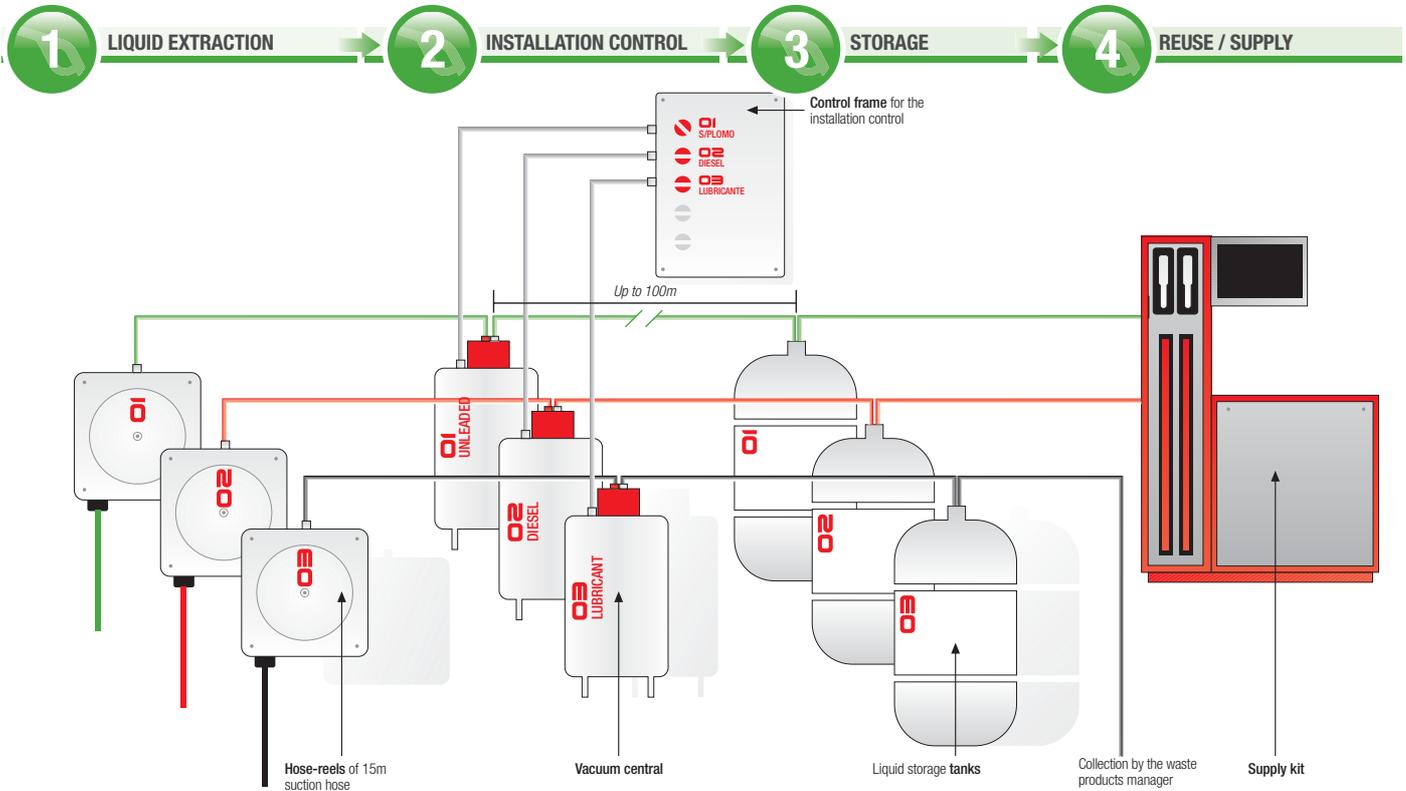
The liquid never flows by the inner of any pump or device, so we are avoiding possible damages in the kit because of the impurity suction.

CUSTOMIZED SOLUTION

VEHICLE DECONTAMINATION INSTALLATION

Vehicle decontamination installation specially suitable for vehicle scrappings, to comply with the environmental rules about the fluid extraction and storage of the directive 2000/53/CE of the European Parliament and Council, of 18/9/00.

It allows a total decontamination of the different liquids of the vehicle through the extraction kits, so as its posterior storage and supply.



WE ARE MAKING BUDGETS AND INSTALLATIONS AT YOUR SIZE

MOBILE SOLUTION

MOBILE EXTRACTION KIT

Mobile extraction kit suitable for the industrial vehicle or heavy plant decontamination



ACCESSORIES



PUNCH FOR THE TANK PERFORATION OF THE VEHICLES OUT OF USE (V.F.U.)

- Suitable tool to perforate the steel and polypropylene tanks of the vehicles out of use.
- It has a hydraulic cylinder that, along with the AF system (fireproof), guarantees a reliable perforation, without sparks. The hydraulic cylinder works with pressure at pedal with two speeds: the quick one by the approximation and the slow one by the perforation.



PF-10 · FILTER PRESS

- Wasted oil recuperator by pressing the filters at the end of its useful life considered "dangerous waste products"
- It complies with the current rules such as the waste product rules 2002/03, contributing to the environment prevention
- Expense reduction in the filter collection (multiplier effect because they are pressed)
- Wasted oil evacuation through pipes and pumping kit on the approved tanks (without specialized manpower)

CUSTOMIZED PROJECTS

FUEL EXTRACTION



Diesel extraction

Controller

Unleaded petrol extraction

- Kit for the fuel extraction of a car tank and its posterior storage in a buried tank.
- This fuel is filtered.
- The supplies are controlled with an own consumption controller.

OIL TEAM SERVICE

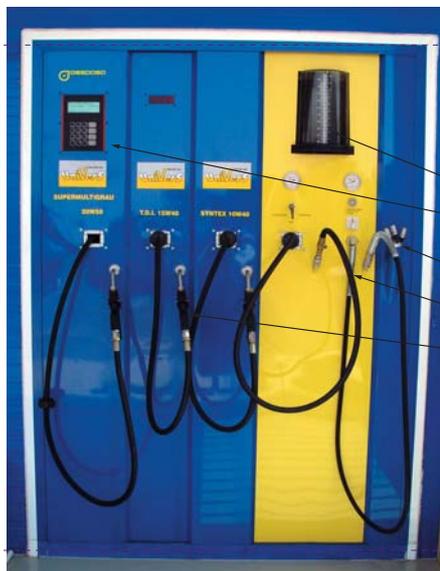
- Innovative concept of workshops / boxes of 60m² that delimits a workshop, an oil change zone, an office and a warehouse with equipment for the lubricant extraction and supply. It can be dismantled and it is composed of a metallic structure and "sandwich" insulating panels of 40mm.



- Installation (key in its hand) of modular workshop to change tyres and lubricants.



- Module of 8,5x7m that delimits a workshop, an oil change zone, an office and a warehouse.



- Complete kit for the extraction, supply and control of 3 types of lubricant with PC connection and software

Electric lubricant extraction

Digital supply control with PC connection

Probe-carrier

Extraction up to 10m

Supply of 3 types of lubricant



LUBRICATION VEHICLE

Personalized installation of kits for the lubricant transfer assembled on van dedicated to the maintenance of Public Works machinery.

- It allows the lubricant, grease and air compressed supply through the hose-reels in a quick, clean and comfortable way for the workers. The meter nozzles control the supplied amounts. It also allows the wasted oil suction from a recuperator to residual tank placed in a box of the van.



Detail of oil drip plate placing



- 1 Battery of 6 opened hose-reels with 15m hose
- 2 PMGE-40 complete electronic oil control valve
- 3 1 cased hose-reel with 15m hose
- 4 Compressed air supply
- 5 Oil drip plate
- 6 Modular ground anchorage of tanks of 200 litres

LUBRICANT SUPPLY KIT WITH CONTROLLER

Lubricant supply kit:

- 100 l/min
- Electronic meter
- Preset
- Restricted use through secret codes
- Ticket printer
- Cable hose-reel
- Hose hose-reel





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