FUEL

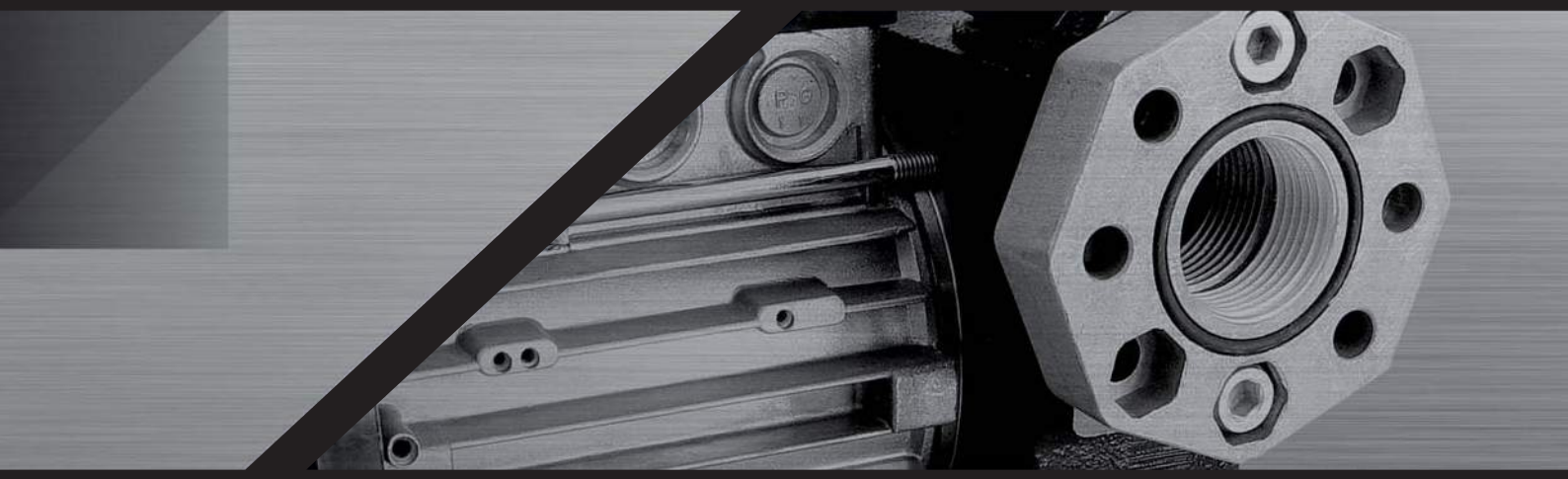
ADBLUE/DEF

LUBRICANT

GREASE

General Catalogue V15

gespasa®
FLUID TECHNOLOGY



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Эл. почта: gsp@nt-rt.ru || Сайт: http://gespasa.nt-rt.ru/

TOT COMERCIAL SA, GESPASA's manufacturer, celebrates the 40th anniversary since our first product manufacture.

Our main aim is to detect our customers' requirements, design and manufacture of everything regarding to the fuel and lubricant transfer, filtering, measurement and control.

Our products are designed and manufactured for:
- a quick installation
- an easy and safe use
- reliability and durability
- the environment protection

We really hope this catalogue will be a useful tool for your business and you find on it the solution you are looking for.

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Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

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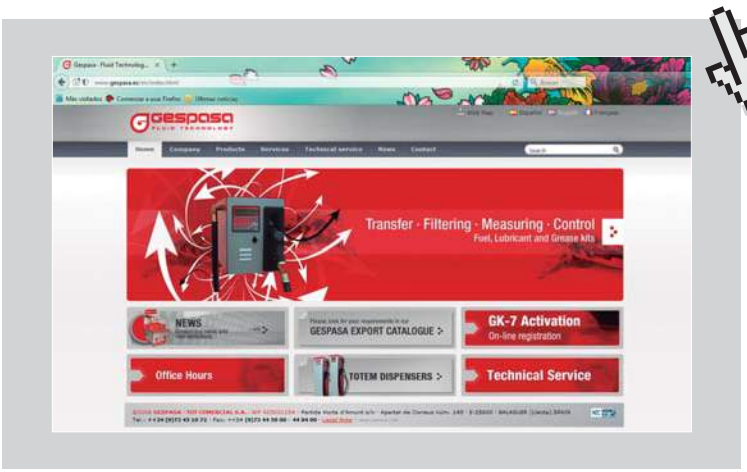
Updated product list in our web site **www.gespasa.es**



Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

GESPASA · Manufacturing kits since 1974

We are still growing because of you!
New computing warehouse, new management software, new mechanizing metallic transformation machines, new assembly zone, new metrologic laboratory, new products and new markets.

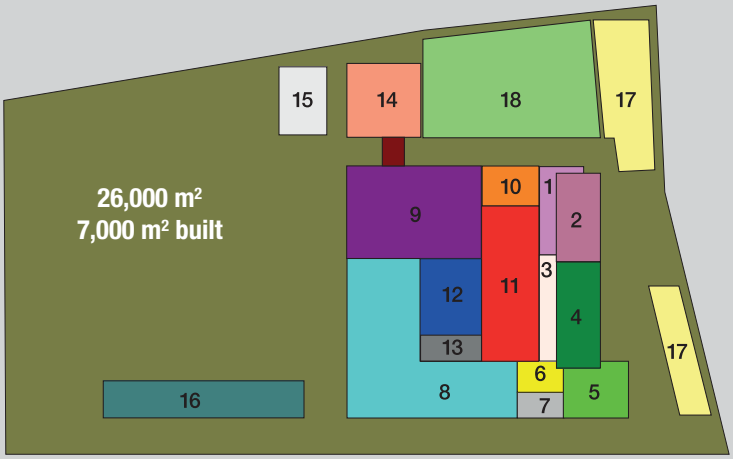
We want to thank you, our friends and customers, the confidence you have in our company and products. We hope to cooperate with you in order to get a continuous improvement of our processes, products and human relationship.

CATALOGUE V15

Important news:

- **Equipment connected to the software "on demand" DieselPlus** (pages 43-46)
- **Meters, controllers and level indicators with automatic connection and data base access trough the Internet** (pages 32-48)
- **Oval gear meters. Wide range of meters with high accuracy for fuel, lubricants and AdBlue/DEF** (pages 32-34)
- **FG-100 · Microfilter of 2-litre capacity with aluminium heading & high capacity aluminium microfilters** (pages 54-56)
- **GENIUS level indicator with communication via cable or wireless** (pages 50-52)
- **New range of pumps and kits for Adblue/DEF** (pages 74-75)
- **Lubricant Management System** (pages 96-97)

OUR FACILITIES



1 - Showroom
2 - Training
3 - Meeting rooms
4 - Offices
5 - Plastic injection area
6 - Prototype test area
7 - S.A.T.
8 - Metallic Transformation
9 - Warehouse
10 - Laboratory and calibration
11 - Assembly area
12 - Mechanizing area
13 - Moulds and tools
14 - Paint
15 - Wear test area
16 - Tank warehouse
17 - Parking
18 - «Oxygen» garden

8

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MILDEBRAND

FUELS

50 l/min

110 VAC

230 VAC

IRON-50 230 V

mm (approx.) 185 × 225 × 146

kg (approx.) 8.5

Equivalence box / Flow curves page 72

*Note: Free outlet flow
The final flow is subject to the accessories and the installation conditions (refer to page 72).

DESCRIPTION	CODE

50 l/min 110 or 230 VAC

IRON-50 230 VAC	00190
IRON-50 110 VAC	00192

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

■ **Optional accessories** (*page 59*)

- F1" aluminium flange complete kit *with DIN.912 Allen screw* — 800003022

SE-50 230 V with MGE-110 without base

*Nozzle and hose not included

S-50 230 V with metallic base no. 4

mm (approx.) 325 × 300 × 450

kg (approx.) 16.8

Connection detail of the meter to the pump with a long union flange

S-50 230 V · PUMP WITH LITRE METER

Pump (IRON-50 230 VAC)	Meter	Base: Without base	Base: Universal support	Base: Metallic no. 4	
●	MG-80 · Mechanical	●			31594-CF00000
●			●		30844-CF00000
●				●	30702-CF00000
●	MGE-110 · Electronic	●			31612-CF00000
●			●		30845-CF00000
●				●	30713-CF00000

■ **Optional accessories**

• **PSF-040** · Manual nozzle + 4 m Ø19 mm delivery hose with adapters in both ends	803406072
• **PA-60** · Automatic nozzle + 4 m Ø19 mm delivery hose with adapters in both ends	803406073
• M1" long union flange complete kit in PA+Fibreglass (*page 59*)	800003027
• STAINLESS sieve-filter of 350 µm (micron) Ø33 mm (*page 59*)	460000003

■ **Suction kits** (refer to *page 58*)

KIT EQUIPE

mm (approx.) 585 × 330 × 620

KIT EQUIPE + MG-80	55050-CF00000
KIT EQUIPE + MGE-110	55051-CF00000

Composed of:
- IRON-50 230 VAC pump
- MG-80 mechanical or electronic MGE-110 meter
- FG-100 transparent microfilter of 2-litre capacity · 5 µm (micron) · water-repellent
- AS-5B outdoors cabinet made of steel with a lower opening to pass the hose, inner hanger for a nozzle and locking with key and/or padlock (*padlock not included*).

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION | CODE

50 l/min 230 VAC

50 l/min

110 VAC

230 VAC

S-50 230 V KIT + MG-80 + AS-5P	55110-CF00000
SE-50 230 V KIT + MGE-110 + AS-5P	55111-CF00000

Composed of:
- IRON-50 230 VAC pump
- MG-80 mechanical or MGE-110 electronic meter
- AS-5P outdoors cabinet made of steel with a lower opening to pass the hose, with nozzle hanger and micro-switch, stopping automatically the pump when the nozzle is hung, and locking with key and/or padlock (*padlock not included*).

S-50 Kit + AS-5P cabinet

HORIZONTAL COMPLETE KITS WITH IRON-50 230 V PUMP

The horizontal kits are equipped with:
- IRON-50 230 VAC pump *(with or without litre meter)*
- Manual or automatic nozzle
- Accessories:
  - 4 m Ø3/4" antistatic double layer delivery hose special for diesel, with adapters in both ends
  - 1.70 m Ø25 mm hose special for diesel
  - 2 M1"x25PP adapters
  - 2 25x40 mm brackets
  - PP lower filter

Pump	Accessories	Meter	Nozzle: Manual PSF-040	Nozzle: Automatic PA-60 (swivel included)	
IRON-50 230 VAC					
●	●	Without meter	●		16000-CF00000
●	●			●	16000-CF00001
●	●	Mechanical MG-80	●		16001-CF00000
●	●			●	16001-CF00001
●	●	Electronic MGE-110	●		16002-CF00000
●	●			●	16002-CF00001

IRON-50H 230 V KIT

S-50H 230 V KIT

SE-50H 230 V KIT + MGE-110

VERTICAL COMPLETE KITS WITH TELESCOPIC TUBE AND IRON-50 230 V PUMP

The vertical kits are equipped with:
- IRON-50 230 VAC pump *(with or without litre meter)*
- Manual or automatic nozzle
- Accessories:
  - M1" F1 1/4" telescopic tube kit, height 1.90 m with filter built in
  - 4 m Ø3/4" antistatic double layer delivery hose special for diesel, with adapters in both ends
  - MF1" brass elbow

Pump	Accessories	Meter	Nozzle: Manual PSF-040	Nozzle: Automatic PA-60 (Swivel included)	
IRON-50 230 VAC					
●	●	Without Meter	●		16003-CF00000
●	●			●	16003-CF00001
●	●	Mechanical MG-80	●		16004-CF00000
●	●			●	16004-CF00001
●	●	Electronic MGE-110	●		16005-CF00000
●	●			●	16005-CF00001

IRON-50V 230 V KIT

S-50V 230 V KIT

SE-50V 230 V KIT + MGE-110

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

50 l/min

12/24 VDC

IRON-50 (12 or 24 VDC)

mm (approx.) 137 × 160 × 200

kg (approx.) 4.5

Equivalence box / Flow curves page 72

*Note: Free outlet flow
The final flow is subject to the accessories and the installation conditions (refer to page 72).

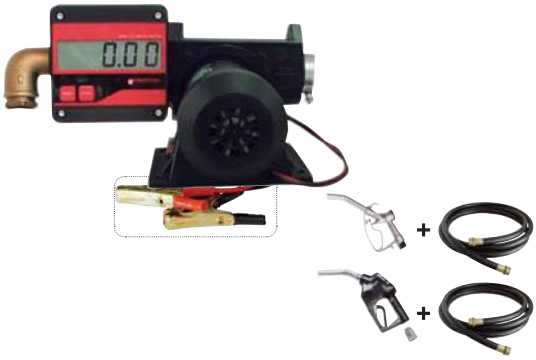
DESCRIPTION	CODE
50 l/min 12 or 24 VDC	
IRON-50 12 VDC	00001
IRON-50 24 VDC	00011

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

S-50 12/24 V with metallic base no. 4

**Nozzle and hose not included*

SE-50 12/24 V + MGE-110 without base



S-50 BATTERY · PUMP WITH LITRE METER

Pump: IRON-50 12 VDC	Pump: IRON-50 24 VDC	Meter	Base: Metallic no. 4	
●		Mechanical **MG-80**		31014-CF00000
	●			31014-CF00001
●			●	30011-CF00000
	●		●	30011-CF00001
●		Electronic **MGE-110**		31273-CF00000
	●			31273-CF00001
●			●	30412-CF00000
	●		●	30412-CF00001

■ Optional accessories:

- **PSF-040** · Manual nozzle + 4 m Ø19 mm delivery hose with adapters in both ends — 803406072
- **PA-60** · Automatic nozzle + 4 m Ø19 mm delivery hose with adapters in both ends — 803406073

DIESEL BATTERY KIT 12 or 24 VDC

mm (approx.) 195 × 350 × 305

kg (approx.) 8.25

DIESEL BATTERY KIT 12 VDC	14193-CF00000
DIESEL BATTERY KIT 24 VDC	14193-CF00001

- IRON-50 12 or 24 VDC pump
- PSF-040 · Manual aluminium nozzle with F1" swivel and curved spout
- 4 m Ø19 mm double layer delivery diesel hose with adapters in both ends
- PP Lower filter with STAINLESS mesh
- 2 25x40 mm brackets
- 1" PP adapter
- It is supplied with a printed box.

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION CODE

50 l/min 12 or 24 VDC

50 l/min

12/24 VDC

HORIZONTAL COMPLETE KITS WITH IRON-50 12 or 24 VDC PUMP

The horizontal kits are equipped with:
- IRON-50 12 or 24 VDC pump *(with or without litre meter)*
- Manual or automatic nozzle
- Accessories:
  - *4 m* Ø19 mm antistatic double layer delivery hose special for diesel, with adapters in both ends
  - 1.70 m Ø21 mm hose special for diesel
  - M3/4"x26PP adapter
  - 2 23x35 mm bracket
  - PP lower filter

Pump		Accessories	Meter	Nozzle		
IRON-50 12 VDC	24 VDC			Manual PSF-040	Automatic PA-60 (swivel included)	
●		●	Without Meter	●		16024-CF00000
	●	●		●		16024-CF00001
●		●			●	16024-CF00002
	●	●			●	16024-CF00003
●		●	Mechanical MG-80	●		16025-CF00000
	●	●		●		16025-CF00001
●		●			●	16025-CF00002
	●	●			●	16025-CF00003
●		●	Electronic MGE-110	●		16026-CF00000
	●	●		●		16026-CF00001
●		●			●	16026-CF00002
	●	●			●	16026-CF00003

SE-50H BATTERY KIT + MGE-110

VERTICAL COMPLETE KITS WITH TELESCOPIC TUBE AND IRON-50 12 or 24 VDC PUMP

The vertical kits are composed of:
- IRON-50 12 or 24 VDC pump *(with or without litre meter)*
- Manual or automatic nozzle
- Accessories:
  - M1" F1 1/4" telescopic tube kit, height 1.90 m with filter built in
  - 4 m Ø19 mm antistatic double layer delivery hose special for diesel, with adapters in both ends

Pump		Accessories	Meter	Nozzle		
IRON-50 12 VDC	24 VDC			Manual PSF-040	Automatic PA-60 (swivel included)	
●		●	Without Meter	●		16027-CF00000
	●	●		●		16027-CF00001
●		●			●	16027-CF00002
	●	●			●	16027-CF00003
●		●	Mechanical MG-80	●		16028-CF00000
	●	●		●		16028-CF00001
●		●			●	16028-CF00002
	●	●			●	16028-CF00003
●		●	Electronic MGE-110	●		16029-CF00000
	●	●		●		16029-CF00001
●		●			●	16029-CF00002
	●	●			●	16029-CF00003

SE-50V BATTERY KIT + MGE-110

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75 l/min

230 VAC

0,5 kW

IRON-75

mm (approx.) 185 / 146 / 225 — kg (approx.) 8.5

+ Equivalence box / Flow curves page 72

*Note: Free outlet flow
The final flow is subject to the accessories and the installation conditions (refer to page 72).

DESCRIPTION	CODE
75 l/min 230 VAC	
IRON-75 230 VAC	00350

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

■ **Optional accessories** *(page 59)*

- F1" aluminium flange complete kit *with DIN.912 Allen screw* — 800003022

SE-75 + MGE-110 without base

*Nozzle and hose not included

S-75 with metallic base no. 4

mm (approx.) 325 / 480 / 320 — kg (approx.) 21.6

S-75 · PUMP WITH LITRE METER

Pump	Meter	Base: without base	Base: Universal support	Base: Metallic no. 4	
IRON-75 230 VAC					
●	Mechanical MG-80	●			31930-CF00000
●			●		33290-CF00000
●				●	33300-CF00000
●	Electronic MGE-110	●			31931-CF00000
●			●		33291-CF00000
●				●	33301-CF00000

■ Optional accessories

- **PSF-040** · Manual nozzle + 4 m Ø25 mm delivery hose with adapters in both ends — 803406074
- **PA-80** · Automatic nozzle + 4 m Ø25 mm delivery hose with adapters in both ends — 803406075

Connection detail of the meter to the pump with a long union flange

Suction valve with check valve and filter

Suction kit with anti-siphon valve

- **Suction kit with check valve and 1 1/4" filter + 3 m hose**
  - height 1.65 m *(page 58)* — 35520
  - height 1.90 m *(page 58)* — 35530
- **Suction kit with check valve and 1 1/4" filter, ball valve and anti-siphon valve + 3 m hose**
  - height 1.65 m *(page 58)* — 35522
  - height 1.90 m *(page 58)* — 35532

FUP-1 filter

- **FUP-1** FF1" *filter* of 350 µm (micron) *(page 56)* — 66030

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION | CODE

75 l/min 230 VAC

75 l/min
230 VAC
0,5 kw

S-75 230 VAC KIT + MG-80 + AS-5P	55250-CF00000
SE-75 230 VAC KIT + MGE-110 + AS-5P	55251-CF00000

It is equipped with:
- IRON-75 230 VAC pump
- MG-80 mechanical or MGE-110 electronic meter
- AS-5P outdoors cabinet made of steel with a lower opening to pass the hose, with nozzle hanger and micro-switch, stopping automatically the pump when the nozzle is hung, and locking with key and/or padlock (*padlock not included*).

HORIZONTAL COMPLETE KITS WITH IRON-75 230 V PUMP

The horizontal kits are equipped with:
- IRON-75 230 VAC pump *(with or without litre meter)*
- Manual or automatic nozzle
- Accessories:
  - 4 m Ø25 mm antistatic double layer delivery hose special for diesel, with adapters in both ends
  - 1.70 m Ø25 mm hose special for diesel
  - 1" York filter
  - *2 x 25x40 mm brackets*
  - 2 x M1"x25 PP adapters
  - FF1" brass union

Pump (IRON-75 230 VAC)	Accessories	Meter	Nozzle: Manual PSF-040	Nozzle: Automatic PA-80 (swivel included)	
●	●	Without Meter	●		16006-CF00000
●	●			●	16006-CF00001
●	●	Mechanical MG-80	●		16007-CF00000
●	●			●	16007-CF00001
●	●	Electronic MGE-110	●		16008-CF00000
●	●			●	16008-CF00001

VERTICAL COMPLETE KITS WITH TELESCOPIC TUBE AND IRON-75 230 V PUMP

The vertical kits are equipped with:
- IRON-75 230 VAC pump *(with or without litre meter)*
- Manual or automatic nozzle
- Accessories:
  - M1" F1 1/4" telescopic tube kit, height 1.90 m with filter built in
  - 4 m Ø25 mm antistatic double layer delivery hose special for diesel, with adapters in both ends

Pump (IRON-75 230 VAC)	Accessories	Meter	Nozzle: Manual PSF-040	Nozzle: Automatic PA-80 (swivel included)	
●	●	Without Meter	●		16009-CF00000
●	●			●	16009-CF00001
●	●	Mechanical MG-80	●		16010-CF00000
●	●			●	16010-CF00001
●	●	Electronic MGE-110	●		16011-CF00000
●	●			●	16011-CF00001

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80 l/min

12/24 VDC

AG-90 12 or 24 VDC

mm (approx.) 175 / 350 / 165 — kg (approx.) 15,5

AG-90 12 or 24 VDC
with switch

+ Equivalence box / Flow curves page 72

*Note: Free outlet flow
The final flow is subject to the accessories and the installation conditions (refer to page 72).

DESCRIPTION	CODE
80 l/min 12 or 24 VDC	
AG-90 12 VDC	00040
AG-90 24 VDC	00050
AG-90 12 VDC WITH SWITCH	00042
AG-90 24 VDC WITH SWITCH	00052

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

■ **Optional accessories** *(page 59)*

- F1" aluminium flange complete kit *with DIN.912 Allen screw* — 800003022

SAGE-90 + MGE-110 without base

*Nozzle and hose not included

SAG-90 with metallic base no. 4

mm (approx.) 325 / 450 / 375 — kg (approx.) 23.6

SAG-90 · PUMP WITH LITRE METER

Pump (AG-90) 12 VDC	Pump (AG-90) 24 VDC	Meter	Base: without base	Base: Universal support	Base: Metallic no. 4	
●		Mechanical **MG-80**	●			31090-CF00000
	●		●			31090-CF00001
●				●		33120-CF00000
	●			●		33120-CF00001
●					●	30120-CF00000
	●				●	30120-CF00001
●		Electronic **MGE-110**	●			31332-CF00000
	●		●			31332-CF00001
●				●		33180-CF00000
	●			●		33180-CF00001
●					●	30474-CF00000
	●				●	30474-CF00001

Connection detail of the meter to the pump with a long union flange

■ Optional accessories

- **PSF-040** · Manual nozzle + 4 m Ø25 mm delivery hose with adapters in both ends — 803406074
- **PA-80** · Automatic nozzle + 4 m Ø25 mm delivery hose with adapters in both ends — 803406075
- **Suction kit with check valve and 1 1/4" filter + 3 m hose**
  - height 1.65 m *(page 58)* — 35520
  - height 1.90 m *(page 58)* — 35530
- **Suction kit with check valve and 1 1/4" filter, ball valve and anti-siphon valve + 3 m hose**
  - height 1.65 m *(page 58)* — 35522
  - height 1.90 m *(page 58)* — 35532
- **FUP-1** FF1" *filter* of 350 µm (micron) *(page 56)* — 66030

Suction valve with check valve and filter

Suction kit with anti-siphon valve

FUP-1 filter

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION CODE

80 l/min 12 or 24 VDC

80 l/min

12/24 VDC

HORIZONTAL COMPLETE KITS WITH AG-90 12 or 24 VDC PUMP

The horizontal kits are equipped with:
- AG-90 12 or 24 VDC pump *(with or without litre meter)*
- Manual or automatic nozzle
- Accessories:
  - 4 m Ø25 mm antistatic double layer delivery hose special for diesel, with adapters in both ends
  - 1.70 m Ø25 mm hose special for diesel
  - 1" York filter
  - 2 x 25x40 mm brackets
  - 2 x M1"x25 PP adapters
  - FF1" brass union

Pump AG-90		Accessories	Meter	Nozzle		CODE
12 VDC	24 VDC			Manual PSF-040	Automatic PA-80 (swivel included)	
●		●	Without meter	●		16012-CF00000
	●	●		●		16012-CF00001
●		●			●	16012-CF00002
	●	●			●	16012-CF00003
●		●	Mechanical MG-80	●		16013-CF00000
	●	●		●		16013-CF00001
●		●			●	16013-CF00002
	●	●			●	16013-CF00003
●		●	Electronic MGE-110	●		16014-CF00000
	●	●		●		16014-CF00001
●		●			●	16014-CF00002
	●	●			●	16014-CF00003

VERTICAL COMPLETE KITS WITH TELESCOPIC TUBE AND AG-90 12 or 24 VDC PUMP

The vertical kits are equipped with:
- AG-90 12 or 24 VDC pump *(with or without litre meter)*
- Manual or automatic nozzle
- Accessories:
  - M1" F1 1/4" telescopic tube kit, height 1.90 m with filter built in
  - 4 m Ø25 mm antistatic double layer delivery hose special for diesel, with adapters in both ends

Pump AG-90		Accessories	Meter	Nozzle		CODE
12 VDC	24 VDC			Manual PSF-040	Automatic PA-80 (swivel included)	
●		●	Without Meter	●		16015-CF00000
	●	●		●		16015-CF00001
●		●			●	16015-CF00002
	●	●			●	16015-CF00003
●		●	Mechanical MG-80	●		16016-CF00000
	●	●		●		16016-CF00001
●		●			●	16016-CF00002
	●	●			●	16016-CF00003
●		●	Electronic MGE-110	●		16017-CF00000
	●	●		●		16017-CF00001
●		●			●	16017-CF00002
	●	●			●	16017-CF00003

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100 l/min

230 VAC

1 kW

AG-100

mm (approx.) 245 × 165 × 365

kg (approx.) 15.15

Equivalence box / Flow curves page 72

*Note: Free outlet flow
The final flow is subject to the accessories and the installation conditions (refer to page 72).

DESCRIPTION	CODE

100 l/min 230 VAC

AG-100 (1 kW) 230 VAC	00360

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

■ **Optional accessories** *(page 59)*

- F1" aluminium flange complete kit *with DIN.912 Allen screw* — 800003022

SAGE-100 + MGE-110 without base

SAG-100 with metallic base no. 4

mm (approx.) 370 × 325 × 480

kg (approx.) 24.1

*Nozzle and hose not included

SAG-100 230 VAC · PUMP WITH LITRE METER

Pump (AG-100 230 VAC)	Meter	Base: without base	Base: Universal support	Base: Metallic no. 4	
●	Mechanical MG-80	●			31940-CF00000
●			●		33310-CF00000
●				●	33320-CF00000
●	Electronic MGE-110	●			31941-CF00000
●			●		33311-CF00000
●				●	33321-CF00000

■ Optional accessories

- **PSF-040** · Manual nozzle + 4 m Ø25 mm delivery hose with adapters in both ends — 803406074
- **PA-80** · Automatic nozzle + 4 m Ø25 mm delivery hose with adapters in both ends — 803406075

Connection detail of the meter to the pump with a long union flange

Suction valve with check valve and filter

Suction kit with anti-siphon valve

- **Suction kit with check valve and 1 1/4" filter + 3 m hose**
  - height 1.65 m *(page 58)* — 35520
  - height 1.90 m *(page 58)* — 35530
- **Suction kit with check valve and 1 1/4" filter, ball valve and anti-siphon valve + 3 m hose**
  - height 1.65 m *(page 58)* — 35522
  - height 1.90 m *(page 58)* — 35532

FUP-1 filter

- **FUP-1** FF1" *filter* of 350 µm (micron) *(page 56)* — 66030

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION | CODE

100 l/min 230 VAC

SAG-100 KIT + MG-80 + AS-5 — 55040-CF00000
SAGE-100 KIT + MGE-110 + AS-5 — 55041-CF00000

It is equipped with:
- AG-100 230 VAC pump
- MG-80 mechanical or electronic MGE-110 meter
- AS-5B outdoors cabinet made of steel with a lower opening to pass the hose, inner hanger for a nozzle and locking with key and/or padlock (*padlock not included*).

100 l/min
230 VAC
1 kW

HORIZONTAL COMPLETE KITS WITH AG-100 PUMP

The horizontal kits are equipped with:
- AG-100 230 VAC pump *(with or without litre meter)*
- Manual or automatic nozzle
- Accessories:
  - 4 m Ø25 mm antistatic double layer delivery hose special for diesel, with adapters in both ends
  - 1.70 m Ø25 mm hose special for diesel
  - 1" York filter
  - *2 x 25x40 mm brackets*
  - 2 x M1"x25 PP adapters
  - FF1" brass union

Pump (AG-100 230 VAC)	Accessories	Meter	Nozzle: Manual PSF-040	Nozzle: Automatic PA-80 (swivel included)	
●	●	without meter	●		16018-CF00000
●	●			●	16018-CF00001
●	●	Mechanical MG-80	●		16019-CF00000
●	●			●	16019-CF00001
●	●	Electronic MGE-110	●		16020-CF00000
●	●			●	16020-CF00001

VERTICAL COMPLETE KITS WITH TELESCOPIC TUBE AND AG-100 PUMP

The vertical kits are equipped with:
- AG-100 230 VAC pump *(with or without litre meter)*
- Manual or automatic nozzle
- Accessories:
  - M1" F1 1/4" telescopic tube kit, height 1.90 m with filter built in
  - 4 m Ø25 mm antistatic double layer delivery hose special for diesel, with adapters in both ends

Pump (AG-100 230 VAC)	Accessories	Meter	Nozzle: Manual PSF-040	Nozzle: Automatic PA-80 (swivel included)	
●	●	Without Meter	●		16021-CF00000
●	●			●	16021-CF00001
●	●	Mechanical MG-80	●		16022-CF00000
●	●			●	16022-CF00001
●	●	Electronic MGE-110	●		16023-CF00000
●	●			●	16023-CF00001

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

50 l/min
12/24 VDC
230 VAC

IRON-50 Ex 230 VAC
IRON-50 Ex 12 or 24 VDC

mm (approx.) 155 / 265 / 165
kg (approx.) 11.4

+ Equivalence box / Flow curves page 72

*Note: Free outlet flow
The final flow is subject to the accessories and the installation conditions (refer to page 72).

DESCRIPTION | CODE

50 l/min 230 VAC · 12/24 VDC

IRON-50 Ex 230 VAC	10035
IRON-50 Ex 12 VDC **IRON-50 Ex 24 VDC**	10063 10153

- Self-suction - self-priming, explosionproof, eccentric of self-adjusting blades
- With recirculation bypass
- Suction: 2.7 m
- *Priming pipe suction: 5 m*
- Consumption: 1-1.8 A (230 VAC) / 20-27 A (12 VDC) · 10-14 A (24 VDC)
- 2,850 rpm (230 VAC) / 3,000 rpm (12 or 24 VDC)
- Motor: 0.18 kW 230 VAC - 50 Hz single-phase / 12 or 24 VDC · EExd
- With thermal protector - IP-55 protection
- *Motor zone classification: II 2G Ex dc IIB T4 - Certificate LOM 15ATEX0124*
- Operation: S2 30'
- Connection through F1" (BSP) threads and flanges
- ON/OFF switch
- 3 m cable
- Anti-rust treatment

80 l/min
12 VDC
230 VAC

AG-800
AG-900

AG-800 mm (approx.) 155 / 350 / 165 kg (approx.) 17.4
AG-900 mm (approx.) 155 / 400 / 165 kg (approx.) 19

+ Equivalence box / Flow curves page 72

*Note: Free outlet flow
The final flow is subject to the accessories and the installation conditions (refer to page 72).

80 l/min 230 VAC · 12 VDC

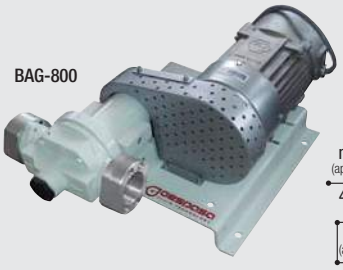
AG-800 230 VAC	10040
AG-900 12 VDC	10070

- Self-suction - self-priming, explosionproof, eccentric with self-adjusting blades
- With recirculation bypass system
- Suction: 2.7 m
- *Priming pipe suction: 5 m*
- Consumption: 2.3-3.5 A (230 VAC) · 42-50 A (12 VDC)
- 1,430 rpm (230 VAC) · 1,650 rpm (12 VDC)
- Motor: 0.37 kW 230 VAC 50 Hz single-phase or 12 VDC EExd
- Thermal protector - IP-55 protection
- *Motor zone classification: II 2G Ex dc IIB T4 - Certificate LOM 15ATEX0124*
- Operation: S2 30' (230 VAC) · S2 20' (12 VDC)
- Connection: F1" (BSP) threads and flanges
- ON/OFF Switch
- 3 m cable
- Anti-rust treatment

■ Optional accessories *(page 59)*
• F1" aluminium flange complete kit *with DIN.912 Allen screw* — 800003022

150 l/min
230/400 VAC

BAG-800



mm (approx.) 220 / 400 / 330
kg (approx.) 33.5

SBAG-800

mm (approx.) 220 / 420 / 330
kg (approx.) 35.8

+ Equivalence box / Flow curves page 72

*Note: Free outlet flow
The final flow is subject to the accessories and the installation conditions (refer to page 72).

■ *Nozzle and hose not included (refer to page 57-58)*

150 l/min 230/400 VAC

BAG-800 230/400 VAC **BAG-800 230 VAC**	27520 27580

- Self-suction - self-priming, explosionproof, eccentric with self-adjusting blades
- With recirculation bypass system
- Consumption: *3.3-5.8 A (230/400 VAC) · 5.7-6.3 A (230 VAC)*
- Motor: 1 kW 230/400 VAC 50 Hz Triphase
  1 kW 230 VAC 50 Hz Single-phase
- Explosionproof (ATEX)
- *1,410 rpm* · With thermal protector
- Operation: S1
- Bypass pressure: 3-3,5 bar
- Motor zone classification: II 2G EEx d IIB T3
- Motor certificate: *TÜV IT11 ATEX-012X*
- Inlet/outlet connection: 1 1/2" (BSP)
- Anti-rust treatment

SBAG-800E 230/400 VAC (BAG-800 + MGE-250) **SBAG-800E 230 VAC (BAG-800 + MGE-250)**	27530 27600

Supply kit composed of:
Self-suction bedplate pump with EExd (ATEX) motor and wheel system with MGE-250 electronic meter.

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION	CODE
SA · PUMP WITH MG-80AV LITRE METER · 50-80 l/min	
SA-50 Ex 230 VAC · PUMP WITH LITRE METER	31950-CF00000
SA-50 Ex 230 VAC · PUMP WITH LITRE METER + BASE no. 4	33330-CF00000
SA-50 Ex 12 VDC · PUMP WITH LITRE METER	31960-CF00000
SA-50 Ex 12 VDC · PUMP WITH LITRE METER + BASE no. 4	33340-CF00000
SAG-800A Ex 230 VAC · PUMP WITH LITRE METER + BASE no. 4	33350-CF00000
SAG-900A Ex 12 VDC · PUMP WITH LITRE METER + BASE no. 4	33360-CF00000

SA-50 Ex

80 l/min

230 VAC

SAG-800A

■ **Nozzle and hose** not included (*refer to page 57-58*)

■ Optional accessories

• Universal support *(page 60)*	800404259
• Metallic base no. 4 *(page 60)*	800400011
• M1" complete long union flange kit in PA + Fibreglass *(page 59)*	800003027

Universal support

Metallic base no. 4

HIGH FLOW PUMPS 3

- Bedplate self-suction vane pumps of high flow, positive displacement, constant flow, inaudible and heavy-duty
- The transfer is quick, uniform and inaudible.
- It is specially intended for the transfer of high volumes, S1 continuous duty for fuel tank charging and discharging, storage of fuel, hydrocarbon, petrol, diesel, kerosene and other non-corrosive liquids and without solid particles in suspension.
- All the pumps have built in the bypass valve.
- Working pressure: 3.5 bar
- Motor: EExd IIB T4 230/400 VAC 50 Hz · IP-55 protection, IP-55 or motor diesel

BDP-200 · F1 1/2" · EExd	10100
BDP-200 · F1 1/2" · IP-55	10101

- Flow: 200 l/min · Power: 2.2 kW
- Recommended tube diameters: suction 2" - delivery 2"

BDP-300 · F2 1/2" · EExd	10120
BDP-300 · F2 1/2" · IP-55	10121

- Flow: 300 l/min · Power: 2.2 kW
- Recommended tube diameters: suction 3" - delivery 3"

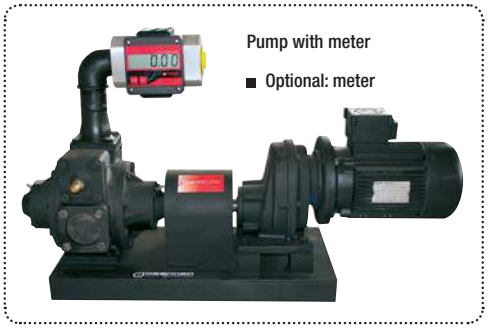
BDP-500 · F2 1/2" · EExd	10110
BDP-500 · F2 1/2" · IP-55	10111

- Flow: 500 l/min · Power: 4 kW
- Recommended tube diameters: suction 3" - delivery 3"

BDP-1000 · F3" · EExd	10130
BDP-1000 · F3" · IP-55	10131

- Flow: 1,000 l/min · Power: 7.5 kW
- Recommended tube diameters: suction 4" - delivery 4"
- Motor EExd IIB T4 400/660 VAC 50 Hz · IP-55 protection

	mm (approx.)	kg (approx.)
BDP-200	285 / 880 / 325	85.5
BDP-300	345 / 1000 / 355	125
BDP-500	345 / 1050 / 365	148.5
BDP-1000	405 / 1264 / 420	227



Pump with meter

■ Optional: meter

DIESEL MOTOR

BDP-500 · F2 1/2" · Diesel motor	10113
BDP-1000 · F3" · Diesel motor	10133

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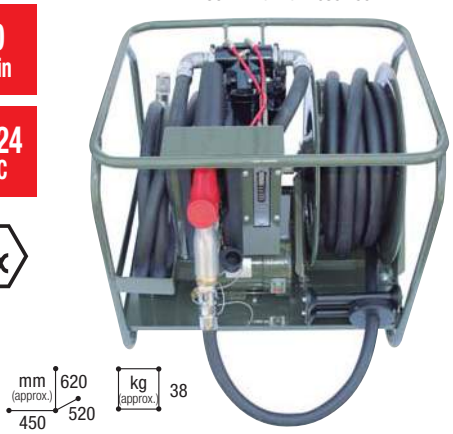
50 l/min

12/24 VDC

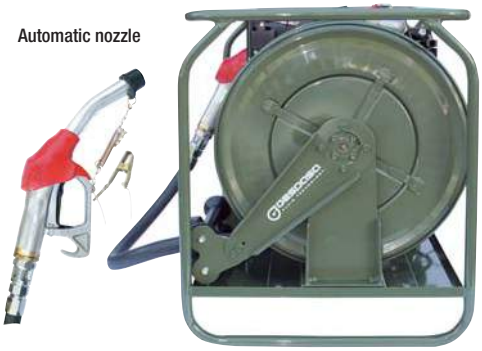
EPAE-50 Ex kit with hose-reel



mm (approx.) 620 × 450 × 520

kg (approx.) 38

Automatic nozzle



DESCRIPTION | CODE

PORTABLE KITS · 50 l/min 12/24 VDC

EPA-50 Ex 12 VDC KIT without hose-reel *	66220-CF00000
EPAE-50 Ex 12 VDC KIT with hose-reel of 10 m *	66230-CF00000

- The GESPASA portable aviation kit is a compact, independent and smooth kit, specially designed for the microfiltered dry fuel supply to helicopters and light aircrafts.
- This kit has built in a GESPASA pump of 12 or 24 VDC or 230 VAC and a separator filter with a filtering cartridge gauge, with or without hose-reel.

Technical Data:
- IRON-50 Ex 12 VDC self-suction pump
- Water absorbent microfilter with a filtering cartridge gauge, approved of aviation
- Differential manometer
- 4 m Ø19 mm suction hose
- Automatic nozzle special for aviation petrol
- STAINLESS connections
- 4 m earth cable with clamp
- Polyamide nozzle holder

System flow: 44 l/min

**It is also available at 24 VDC or 230 VAC.*

Petrol

EPG-50 Ex 12 VDC KIT + FG-100G MICROFILTER *	66221-CF00000
EPGE-50 Ex 12 VDC KIT + FG-100G MICROFILTER with hose-reel	66231-CF00000

- Kit for the petrol transfer and filtering
- This kit is similar to the above one with brass connections, the PA-80G standard nozzle, FG-100G microfilter of 5 µm (micron)
- It does not have built in the differential manometer.

**It is also available at 24 VDC or 230 VAC.*

Diesel

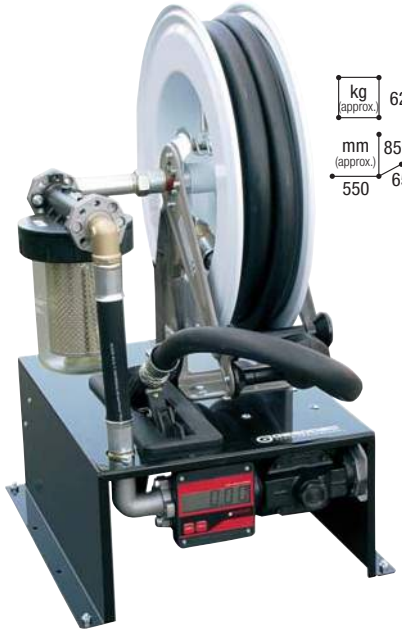
EPG-90 12 VDC KIT + FG-100 MICROFILTER *	66300-CF00000
EPGE-90 12 VDC KIT + FG-100 MICROFILTER with hose-reel *	66301-CF00000

- Kit for the diesel transfer and filtering

Composed of:
- AG-90 12 VDC self-suction pump
- PA-120 · Automatic nozzle
- FG-100 · Transparent microfilter of 5 µm (micron)

**It is also available at 24 VDC or 230 VAC.*

TRUCK KIT · AG-90 24 VDC



kg (approx.) 62

mm (approx.) 850 × 550 × 650

FIXED TRANSFER AND FILTERING KITS

TRUCK KIT · AG-90 12 VDC	15750-CF00000
TRUCK KIT · AG-90 24 VDC	15750-CF00001

- Fuel supply kit assembled in a fixed chassis for the fuel supply, filtering and measurement. It is suitable to supply fuel from a van or a truck.

Composed of:
- Hose-reel with 10 m Ø1" hose
- PA-80 · Automatic nozzle
- Nozzle hanger
- AG-90 12 or 24 VDC self-suction pump · *55 l/min (with Ø1 1/2" suction hose)*
- ON/OFF switch
- Connection box for the battery connection cable
- FG-100 · Transparent microfilter of 5 µm (micron)
- MGE-110 · Electronic meter · Accuracy ±0.5 %

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DESCRIPTION	CODE
BT-87 · SELF-SUCTION DRILL PUMP **CARDBOARD DISPLAY RACK with 6 BT-87 SELF-SUCTION DRILL PUMPS**	00100 00101

- Special for diesel, non-drinking water, herbicides, antifreeze...

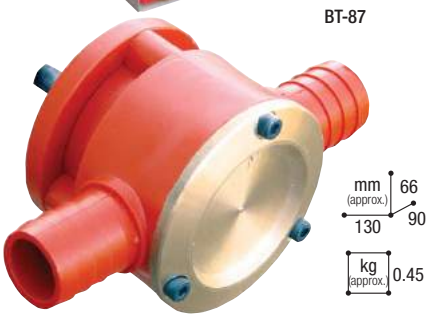
- This small pump is a useful accessory to empty all type of baths, aquariums, toilet bowls, washing machines, flooded basements ...; it is also useful as caravanning auxiliary, laboratories, ... because of the liquid transfer through a drill or its built-in motor.
- *It is adapted to any type of hand-held or professional drill (2,000/2,500 rpm); it can be connected to a hose of maximum Ø21 mm inner.*
- The display rack is composed of 6 units with a printed box with EAN-13 bar code suitable for counters.

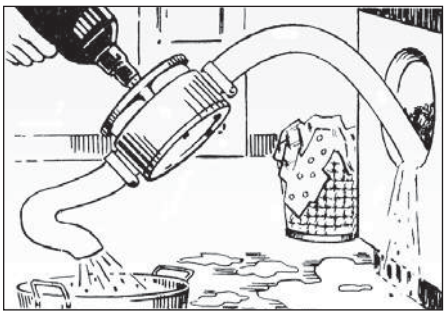
Technical Data:

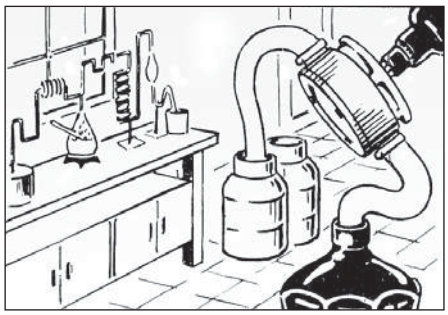
- Eccentric, self-suction pump with self-adjusting blades
- *Connection to hose of Ø21 mm*
- *Pump body with injected brass inner*
- *Stainless steel shaft and pin*
- *Plastic roller and blades*
- *The pump output varies according to the drill and the hose used.*
- *It is advisable to use a drill with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

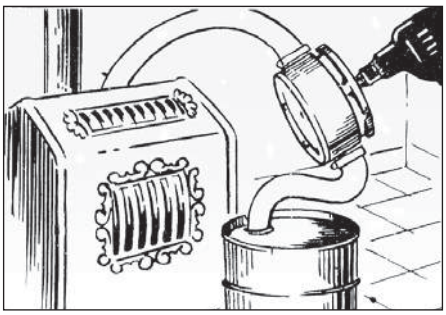
BT-87 CARDBOARD DISPLAY RACK

BT-87









CENTRIFUGAL PUMP 6

CG-150 230 VAC · 100 to 500 l/min	02050

- Flow according to manometric height: from 100 to 500 l/min
- Maximum height: 25 m.c.a.
- Suction with check valve: 6 m
- Consumption: 5-9 A
- Motor: 1.1 kW 230-240 VAC self-ventilated 50 Hz single-phase
- 2,800 rpm
- S1 continuous duty
- Thermal protector
- Connection through F2" (BSP)

CG-150

500 l/min

230 VAC

SCG-150 · PUMP WITH LITRE METER

Pump	Meter	Base	
CG-150	Electronic MGE-250	Metallic no. 3	
●	●		31720
●	●	●	30970

SCG-150

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

7 DIAPHRAGM PUMPS

DESCRIPTION | CODE

SELF-SUCTION DIAPHRAGM PUMPS

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

Pump	Voltage	Joint type	Valves no.	Thermal protector	Intensity	Flow (l/min)	Pressure (bar)	CODE
AF-2012	12 VDC	NBR	2	NO	3.5 - 6 A	8	2.1	07000
AF-2024	24 VDC	NBR	2	NO	1.5 A	8	1.7	07050
AF-2220	230 VAC	NBR	2	NO	0.25 A	6	4.1	07030
AF-4012	12 VDC	NBR	4	YES	7 A	12.5	2.5	07020
AF-2012V	12 VDC	VITON	2	NO	3.5 - 6 A	8.7	2.1	07060
AF-2024V	24 VDC	VITON	2	YES	3.5 A	8.7	2.1	07080
AF-2220V	230 VAC	VITON	2	NO	0.25 A	6	4.1	07070
AF-2036 AP	12 VDC	NBR	4	NO	7 A	6,8	6.6	07010

■ Optional:

• FF3/8" transparent vessel filter (*page 56*) — 802705001

8 MANUAL PUMPS

BP-5

BP-5 · MANUAL LEVER PUMP — 04010

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

Technical Data:
- The pump body is made of aluminium as well as the discharging pipe.
- 880 mm metallic suction telescopic tube made of aluminium
- 2" connection adaptable to metallic drums of 50, 100 and 200 litres
- Nitrile or Viton joints
- Transfer capacity: 0.5 litres x piston-stroke (litres per lever stroke)

TMG-040 TMG-080

TMG-150

MANUAL BELLOW PUMPS

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

■ **TMG-040** — 04060
- 0.4 m tube for 50-litre drums
- Flow: 6 l/min (depending on the piston-stroke)
- Suitable for the storage of kerosene stoves

■ **TMG-080** — 04050
- 0.8 m tube for 200-litre drums
- Flow: 20 l/min (depending on the piston-stroke)

■ **TMG-150** — 04040
- 1.5 m flexible pump
- Flow: 6 l/min (depending on the piston-stroke)
- It is suitable to put in the vehicle tanks.

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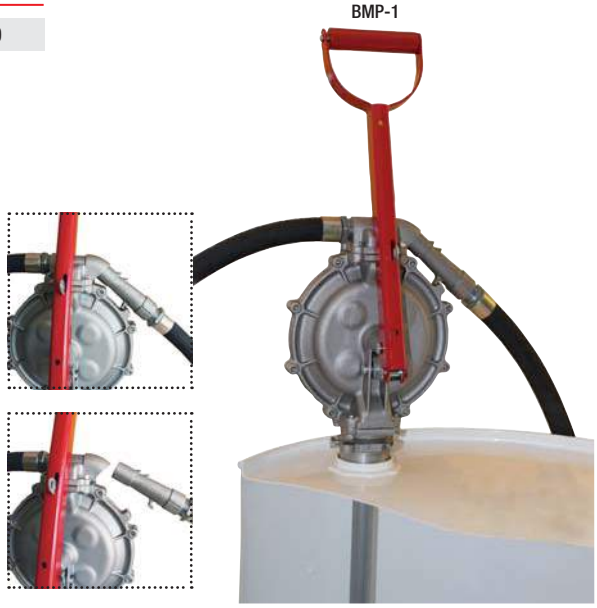
DESCRIPTION	CODE
BMP-1 · MANUAL DOUBLE ACTION PISTON PUMP	04020

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 so as to prevent the dirt and dust entry in the nozzle.

Technical Data:
- Capacity: *800 ml per stroke*
- Inlet: 1" (NPT)
- Outlet: 3/4" (NPT)
- 2.5 m Ø3/4" petrol hose
- Drum plug: adjustable at 2"
- Suction tube: Ø33.5 mm x 1 m
- Aluminium body
- Stainless steel inlet
- Heavy-duty steel handle
- Self-lubricating sealing



BRM-88 · ROTARY ALUMINIUM PUMP	04030
BRM-8880 (pump + MG-80 mechanical meter)	34050

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

Technical Data:
- Type: rotary blade
- Capacity: 20 litres x 70 rounds
- Suction tube: Ø32 mm
- Discharging pipe: Ø25 mm
- Material:
  - · body: tempered aluminium alloy
  - · handle: aluminium die casting

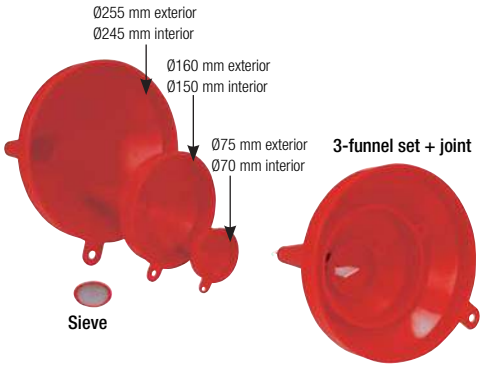
DO NOT USE THE PUMP FOR ORGANIC SOLVENTS OR STRONG ALKALIS AND ACIDS THAT CAN DAMAGE THE RUBBER SEALS.

BRM-U · ROTARY PLASTIC PUMP	04120

PLASTIC FUNNELS

Made of polypropylene, specially suitable for the hydrocarbon and chemical product handling (ask for other liquids).

Ø255 mm exterior · Ø245 mm interior	460000000
Ø160 mm exterior · Ø150 mm interior	460500000
Ø75 mm exterior · Ø70 mm interior	460100000
Ø50 mm exterior · Ø40 mm interior · funnel sieve (Ø255 & 160 mm stainless mesh) of 350 µm (micron)	460000001
3-funnel joint	469000000
3-funnel set of different diameter with joint	460700000



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10-90 l/min

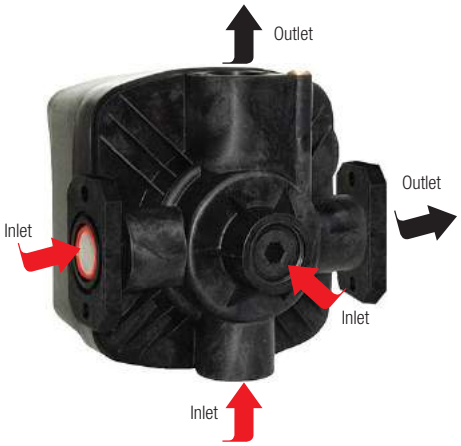
±1%

MG-80

mm (approx.) 170 × 150 × 150 — kg (approx.) 1.6

DESCRIPTION		CODE
MG-80 · MECHANICAL METER	Diesel	32000-CF00000
MG-80V · MECHANICAL METER WITH VITON JOINTS	Petrol	32070-CF00000

- Fireproof measuring chamber with oscillating disc
- Flow: 10-90 l/min
- Accuracy: ±1 %
- Partial indicator of 3 digits and totalizer of 6 digits
- Maximum operation pressure: 3.5 bar
- Maximum temperature: 60 ºC
- Minimum temperature: -10 ºC
- Polyamide + Fibreglass housing
- Connection 1" GAS (BSP) with 3 inlets and 2 outlets
- It is supplied with 2 additional Male/Female 1" GAS (BSP) adapters (other threads upon request).
- The 1" GAS (BSP) red adapter has built in the filter-sieve of 350 µm (micron).
- It is suitable for hydrocarbon liquids (please ask for other fluids).
- For private use, not suitable for fiscal operations



Optional accessories

• **FUP-1** FF1" filter of 350 µm (micron) *(page 56)*	66030
• M1" long union flange complete kit in PA+Fibreglass *(page 59)*	800003027
• Ø33 mm sieve of 350 µm (micron) *(page 59)*	460000003
• MF1" adapter in PA + Fibreglass · BSP long thread	320004018
• Ø24x3.5 mm NBR joint	803100022
• MF1" adapter in PA + Fibreglass · BSP short thread with stainless sieve of 350 µm (micron)	320004117

FUP-1 filter

Long flange

Sieve

Adapters

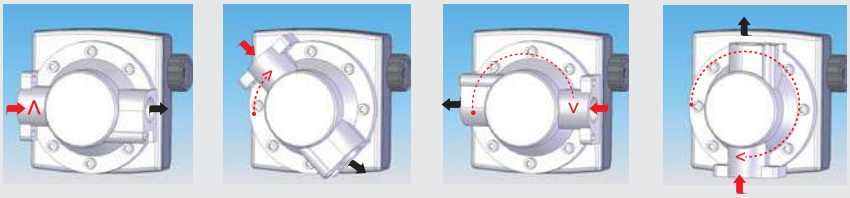
MG-80A

mm (approx.) 165 × 132 × 180 — kg (approx.) 1.95

MG-80A · MECHANICAL ALUMINIUM METER	Diesel	32300-CF00000
MG-80AV · MECHANICAL ALUMINIUM METER WITH VITON JOINTS	Petrol	32340-CF00000

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

4 positions



Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION CODE

ELECTRONIC GEAR METERS WITH ALUMINIUM BODY

Diesel Lubricant

- Aluminium body
- Measurement through high accuracy oval gears
- 5-digit digital display of liquid crystal
- Partial indicator of 3 integers and 2 decimals and 5-digit totalizer
- Accuracy: ±0.5 %
- Max. temperature: 50 ºC
- Min. temperature: -10 ºC
- Button battery of long duration (approx. 4 years, according to its application)
- Low battery display

- Functions:
  - **DISPLAY:** Display of the supplied litres (or the corresponding volume unit).
  - **TOTAL:** Display of the supplied litre total (or the corresponding volume unit). Maximum: 99,999 litres
  - **RESET**
- Calibration parameters and litre totalizer saved in PERMANENT memory

MGE-40

2-40 l/min

±0.5%

MGE-40 · 1/2" · ELECTRONIC GEAR METER — 32350-CF00000

- Flow: *2-50 l/min (diesel)*
  2-40 l/min (lubricant)
- Max. pressure: 50 bar
- Connection: F1/2"

MGE-110

5-110 l/min

±0.5%

MGE-110 · 1" · ELECTRONIC GEAR METER — 32600-CF00000

- Flow: *5-110 l/min (diesel)*
  5-80 l/min (lubricant)
- Max. pressure: 55 bar
- Connection through F1" thread or flange

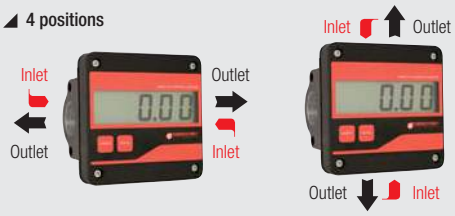
■ **Optional**

- F1" aluminium flange complete kit *with DIN.933 hexagonal screw* — 800003036

Meter connection with aluminium flange

High accuracy oval gears

◢ 4 positions



Direct connection through flange to the GESPASA pumps

MGE-250

10-250 l/min

±0.5%

MGE-250 · 1" · ELECTRONIC GEAR METER — 32503-CF00000
MGE-250 · 1 1/2" · ELECTRONIC GEAR METER — 32503-CF00001

- Flow: 10-250 l/min *(diesel)*
  10-150 l/min *(lubricant)*
- Max. pressure: 45 bar
- Connection: F1" or 1 1 1/2" (flange)

*Display and electronics features same as the MGE-110 meter

MGE-400

15-400 l/min

±0.5%

MGE-400 · 2" · ELECTRONIC GEAR METER — 32592-CF00000

- Flow: 15-400 l/min *(diesel)*
  15-300 l/min *(lubricant)*
- Max. pressure: 45 bar
- Connection: F2"

*Display and electronics features same as the MGE-110 meter

30-800 l/min

±0.5%

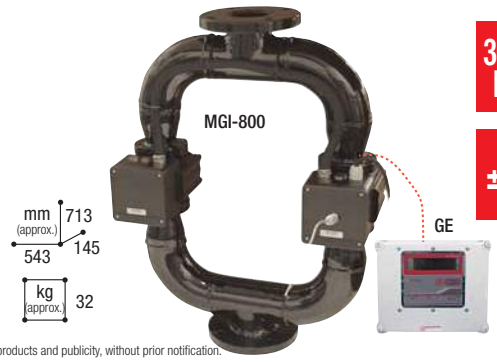
MGI-800 · 3" · PULSER · 5.5 pulses per litre and channel — 32670

- *Voltage: 12 VDC*
- *Flow: 30-800 l/min*
- *Max. pressure: 45 bar*
- *Connection: F3"*

+

GE · DISPLAY WITH HOSE MODULE — 253400200

- *Electronic 6-digit liquid crystal display with box*



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±0.5%

GE

mm (approx.) 200 × 255 × 100

kg (approx.) 1.165

DESCRIPTION	CODE
GE · DISPLAY WITH HOSE MODULE	253400200

6-digit electronic console with luminous display of liquid crystal which allows to:

- See the partial and total of the supplied volume.
- Connect to different types of meters with pulsers of 1 or 2 channels.
- Preset the volume to be supplied, connecting it to a pump and/or solenoid valve.
- Connect it to an external switch or nozzle holder.
- Connect it to the GK-7M controller through the RS-485 communication bus and the GESPASA communication protocol.

*It is compatible with all the GESPASA meters and pulsers.

- Keypad functions:
  TOTAL / EXIT: It shows the Total of the volume: By keeping pressed this key, the display shows the total of the supplied volume.
  Press "TOTAL" to cancel the volume preset.
  Key X10: It allows to preset. It increases 10 units each touch. When keeping pressed, it gets automatically increased.
  Key X1: It allows to preset. It increases 1 unit each touch. When keeping pressed, it gets automatically increased.
- If the volume is among 0.00 and 9999.99, two decimals are shown.
- If the volume is among 10000.0 and 99999.9, it only has one decimal.
- If the volume is equal to or higher than 100000, no decimal is shown.

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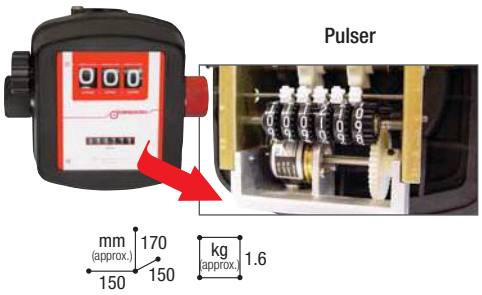
DESCRIPTION	CODE
MGI-80 · MECHANICAL METER WITH PULSER (Diesel)	32050-CF00000
MGI-80V · MECHANICAL METER WITH PULSER AND VITON JOINTS (Petrol)	32230-CF00000

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



10-90 l/min

±1%

GEAR PULSERS WITH ALUMINIUM BODY

MGI-40 F1/2" · 78 pulses per litre and channel — 32280

- Flow: **2-40 l/min** · Connection: F1/2"
Dim. (approx.): Ø95x85 mm · Weight (approx.): 0.58 kg

2-40 l/min

±0.5%

MGI-110 F1" · 41 pulses per litre and channel — 32650

- Flow: **5-110 l/min** · Connection: F1" thread or flange
Dim. (approx.): 123x90x123 mm · Weight (approx.): 1.1 kg

5-110 l/min

±0.5%

MGE/I-110 F1" · 41 pulses per litre and channel — 32602

MGE-110 meter with pulse output
Flow: 5-110 l/min (diesel)
10-150 l/min (lubricant)
Connection: F1" thread or flange
Dim. (approx.): 123x90x123 mm · Weight (approx.): 1.2 kg

MGI-250 F1" · 11 pulses per litre and channel — 32511

- Flow: **10-250 l/min (diesel)**
10-150 l/min (lubricant)
- Connection: F1" or 1 1/2" (flange)
Dim. (approx.): 159x100x141 mm · Weight (approx.): 2.3 kg

10-250 l/min

±0.5%

MGI-400 F2" · 5.5 pulses per litre and channel — 32581

- Flow: **15-400 l/min (diesel)**
15-300 l/min (lubricant)
- Connection: F2" (flange)
Dim. (approx.): 193x145x141 mm · Weight (approx.): 4.3 kg

15-400 l/min

±0.5%

MGI-800 F3" · 5.5 pulses per litre and channel — 32670

- Flow: **30-800 l/min** · Connection: F3" (flange) · **12 VDC**
Dim. (approx.): 543x250x713 mm · Weight (approx.): 31.2 kg

30-800 l/min

±0.5%

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±1%

COMPACT 50M-12
COMPACT 50M-230
COMPACT 75M-230
mm (approx.) 360 / 380 / 345 — kg (approx.) 18-31

COMPACT 90M-12
COMPACT 100M-230
COMPACT 50M-12 Ex
COMPACT 50M-230 Ex
COMPACT 800M-230
mm (approx.) 360 / 383 / 435 — kg (approx.) 28.5-32

DESCRIPTION | CODE

COMPACT supply kits suitable for the diesel supply, measure and control to own consumption vehicles.

Composed of:
- Chassis made of steel with an special treatment against corrosion. Brilliant epoxy paint finish. Weatherproof
- 4 m Ø19 or 25 mm (depending on the pump) double layer delivery hose special for diesel with adapters in both ends
- Automatic nozzle

COMPACT-M · MECHANICAL COMPACT SUPPLY KITS

Accuracy ±1 % · Manual calibration · Disc meter · Total and partial of the supplied litres

Diesel	Voltage	Meter Mechanical MG-80	Automatic Nozzle	Flow l/min	
COMPACT 50M-12	12 VDC	●	PA-60	35-45	28110-CF00000
COMPACT 50M-230	230 VAC	●	PA-60	40-50	28040-CF00000
COMPACT 75M-230	230 VAC	●	PA-80	65-70	28270-CF00000
COMPACT 90M-12	12 VDC	●	PA-80	70-80	28190-CF00000
COMPACT 100M-230	230 VAC	●	PA-120	75-85	28280-CF00000
Petrol		Mechanical **MG-80V**			
COMPACT 50M-12 Ex	12 VDC	●	PA-80	40-50	28140-CF00001
COMPACT 50M-230 Ex	230 VAC	●	PA-80	40-50	28140-CF00000
COMPACT 800M-230	230 VAC	●	PA-80	70-80	28150-CF00000

Ex

* Ask for other versions at 110 VAC and 24 VDC.

±0.5%

COMPACT 50E-12
COMPACT 50E-230
COMPACT 75E-230
COMPACT 90E-12
COMPACT 100E-230
mm (approx.) 405 / 405 / 460 — kg (approx.) 17.5-30.5

COMPACT-E · ELECTRONIC COMPACT SUPPLY KITS

Accuracy ±0.5 % · Electronic calibration with gear meter · Total and partial of the supplied litres · Battery-powered Display

Diesel	Voltage	Meter Electronic MGE-110	Automatic Nozzle	Flow l/min	
COMPACT 50E-12	12 VDC	●	PA-60	35-45	28240-CF00000
COMPACT 50E-230	230 VAC	●	PA-60	40-50	28052-CF00000
COMPACT 75E-230	230 VAC	●	PA-80	65-70	28290-CF00000
COMPACT 90E-12	12 VDC	●	PA-80	70-80	28250-CF00000
COMPACT 100E-230	230 VAC	●	PA-120	75-85	28300-CF00000

* Ask for other versions at 110 VAC and 24 VDC.

COMPACT 50GE-230
COMPACT 75GE-230
COMPACT 100GE-230
mm (aprox.) 405 / 405 / 460 — kg (aprox.) 17,5-30,5

COMPACT-GE · ELECTRONIC COMPACT SUPPLY KITS WITH PRESET

Accuracy ±0.5 % · Electronic calibration with gear meter · Total and partial of the supplied litres · Preset of the volume to be supplied · 6-digit luminous display powered at 230 VAC
Please refer to GE electronics features *(page 34)*

Diesel	Voltage	GE Electronics	Automatic nozzle	Flow l/min	
COMPACT 50GE-230	230 VAC	●	PA-60	40-50	28055-CF00000
COMPACT 75GE-230	230 VAC	●	PA-80	65-70	28295-CF00000
COMPACT 100GE-230	230 VAC	●	PA-120	75-85	28301-CF00000

* Ask for other versions at 110 VAC and 12 or 24 VDC.

Pedestal base

■ Accessories:

- Hexagonal pedestal base (COMPACT) · height 1 m *(page 59)* — 800400014
- F1" aluminium flange kit (special COMPACT) — 800003029

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DESCRIPTION | CODE

These kits have the same components as the COMPACT supply kits assembled in a column chassis in order to directly be fixed in the ground without bases or additional accessories.

Composed of:
- Chassis made of steel with an special treatment against corrosion. Brilliant epoxy paint finish. Weatherproof
- 4 m Ø19 or 25 mm (depending on the pump) double layer delivery hose special for diesel with adapters in both ends
- Automatic nozzle

TOTEM-M · MECHANICAL SUPPLY KITS

Accuracy ±1 % · Manual calibration · Disc meter · Total and partial of the supplied litres

Diesel	Voltage	Meter Mechanical MG-80	Automatic nozzle	Flow l/min	
TOTEM 50M-230	230 VAC	●	PA-60	40-50	27150-CF00000
TOTEM 75M-230	230 VAC	●	PA-80	65-70	27260-CF00000
TOTEM 100M-230	230 VAC	●	PA-120	75-90	27270-CF00000
Petrol		Mechanical MG-80AV			
TOTEM 50M-230 Ex	230 VAC	●	PA-80	40-50	27170-CF00000
TOTEM 800M-230	230 VAC	●	PA-80	60-70	27180-CF00000

TOTEM-E · ELECTRONIC SUPPLY KITS

Accuracy ±0.5 % · Electronic calibration · Gear meter · Total and partial of the supplied litres · Battery-powered Display

Diesel	Voltage	Meter Electronic MGE-110	Automatic nozzle	Flow l/min	
TOTEM 50E-230	230 VAC	●	PA-60	40-50	27191-CF00000
TOTEM 75E-230	230 VAC	●	PA-80	65-70	27281-CF00000
TOTEM 100E-230	230 VAC	●	PA-120	75-90	27291-CF00000

TOTEM GE · ELECTRONIC SUPPLY KITS WITH PRESET

Accuracy ±0.5 % · Electronic calibration with gear meter · Total and partial of the supplied litres · Preset of the volume to be supplied · 6-digit Luminous display powered at 230 VAC
Please refer to GE electronics features *(page 34)*

Diesel	Voltage	GE Electronics	Automatic nozzle	Flow l/min	
TOTEM 50GE-230	230 VAC	●	PA-60	40-50	27192-CF00000
TOTEM 75GE-230	230 VAC	●	PA-80	65-70	27282-CF00000
TOTEM 100GE-230	230 VAC	●	PA-120	75-90	27293-CF00000

■ Optional:
- *FG-100 microfilter kit (TOTEM 50/75/100 inside)* — 27231
- GENIUS level indicator kit (inside) — DISCONTINUED — 272400000

13.1 MIDI KITS

MIDI supply kit suitable for the diesel supply and measurement to own consumption vehicles · Accuracy ±1 % · Manual calibration · Total and partial of the supplied litres

Composed of:
- Chassis made of steel with an special treatment against corrosion. Brilliant epoxy paint finish. Weatherproof
- 4 m Ø19 or 25 mm (depending on the pump) double layer delivery hose special for diesel with adapters in both ends
- Automatic nozzle

SM · MIDI MECHANICAL SUPPLY KITS

Diesel	Voltage	Meter Mechanical MG-80	Automatic Nozzle	Flow l/min	
SM-4680	230 VAC	●	PA-60	40-50	26610
SM-8880	230 VAC	●	PA-80	70-80	26522
Petrol					
SM-50080	230 VAC	●	PA-80	40-50	26540
SM-80080	230 VAC	●	PA-80	60-70	26560

TOTEM-M

±1%

TOTEM-E

±0.5%

TOTEM GE

mm (approx.) 1,500 / 385 / 435 — kg (approx.) 48-59

±1%

mm (approx.) 1,070 / 490 / 260 — kg (approx.) 38-47.7

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80-130 l/min

0.2%

230/400 VAC

STE-80CE

1 HOSE

DESCRIPTION	CODE
STE-80CE 230 V · SINGLE-PHASE · SUPPLY KIT (70-80 l/min)	26083-CF00000
STE-80CE 230/400 V · TRIPHASE · SUPPLY KIT (70-80 l/min)	26081-CF00000
STE-130CE 230/400 V · TRIPHASE · SUPPLY KIT (130 l/min)	26351-CF00000

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

Composed of:

Chassis: Made of steel · special interior and exterior treatment against corrosion · high epoxy brilliant paint · weatherproof. It has built in a base with drip plate to anchor the supply kit.

Hydraulic group composed of:

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

Meter: made of aluminium of 4 piston with positive displacement · Accuracy: 0.2 % · 2-channel pulser of 100 pulses per litre and mechanical totalizer

Motor: 1 kW 230/400 VAC triphase · motor EExd with certificate ATEX · IP-55 protection; or *1 kW* 230 VAC · motor EExd with certificate ATEX single-phase · IP-55 protection

· *STE-130CE model:* 1.5 kW 230/400 VAC triphase · motor EExd with certificate ATEX · IP-55 protection

Electronic Display

Automatic starting and stop; Luminous display with high visibility liquid crystal; partial indicator of 3 integers and 2 decimals or 4 integers and 1 decimal; 6-digit electronic totalizer

It is supplied with:

- 4 m Ø25 mm double layer delivery hose special for diesel with adapters in both ends
- PA-80 · Automatic nozzle with swivel (mod. STE-80CE)
- PA-120 · Automatic nozzle (mod. STE-130CE)

STE-80CED

2 HOSES

STE-80CED 230 V · SINGLE-PHASE · DOUBLE SUPPLY KIT (70-80 l/min)	26382-CF00000
STE-80CED 230/400 V · TRIPHASE · DOUBLE SUPPLY KIT (70-80 l/min)	26381-CF00000
STE-130CED 230/400 V · TRIPHASE · DOUBLE SUPPLY KIT (130 l/min)	26352-CF00000

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

Composed of:

Chassis: Made of steel · special interior and exterior treatment against corrosion · high epoxy brilliant paint · weatherproof. It has built in a base with drip plate to anchor the supply kit.

2 Hydraulic groups composed of:

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

Meter: made of aluminium of 4 piston with positive displacement · Accuracy: 0.2 % · 2-channel pulser of 100 pulses per litre and mechanical totalizer

Motor: 1 kW 230/400 VAC triphase · motor EExd with certificate ATEX · IP-55 protection; or *1 kW* 230 VAC · motor EExd with certificate ATEX single-phase · IP-55 protection

· *STE-130CED model:* 1.5 kW 230/400 VAC triphase · motor EExd with certificate ATEX · IP-55 protection

2 Electronic Displays

Automatic starting and stop; Luminous display with high visibility liquid crystal; partial indicator of 3 integers and 2 decimals or 4 integers and 1 decimal; 6-digit electronic totalizer

It is supplied with:

- 2 x Ø25 mm double layer delivery hose special for diesel with adapters in both ends of 4 m
- 2 x PA-80 · Automatic nozzle with swivel (mod. STE-80CED)
- 2 x PA-120 · Automatic nozzle (mod. STE-130CED)

■ Optional:

• Flexible suction tube with 2" flange	807610002
• 4 m Ø19 mm antistatic unleaded petrol hose with adapters in both ends	803406009
• Gas recovery kit for petrol · Phase II	268300000
• PA-80 1" · Automatic nozzle for unleaded petrol *(page 57)*	47254
• FG-150 microfilter · 10-litre capacity · Microfiltering of 5 µm (micron) *(page 54)*	66050
• FG-300/15 microfilter · 15-litre capacity · Microfiltering of 15 µm (micron) *(page 54)*	66192
• *700 VA / 560 W ONLINE UPS*	805001002

±0.5%

HIGH FLOW SUPPLY KITS

High flow supply kits with electronic display or GK-7 own consumption controller (page 39).

- Flow: from 10 to 900 l/min
- Accuracy: ±0.5 %
- With or without degasifier

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GK-7 · FLEET AND SUPPLY CONTROLLER

APPLICATION:
- Supply control of fuels or other type of fluids
- Identification of the users and/or vehicles that uses the supply kit
- Supply list in the PC of the user and/or vehicle supplies. Total and partial list by users, vehicles or groups.
- Data export in Excel or .txt (text) format in order to be used in other programs or compatible systems
- Fuel stock and purchase control
- Possibility of presetting the amount to be supplied

USE:
Identification: The users and/or vehicles can be identified through PIN / numerical code or the identification key (iButton).
The controller has built in an identification key reader of the proximity keys.

OPTIONAL IDENTIFICATION SYSTEMS:
- Magnetic or proximity cards
- Fixed TAG disc identifier with cable for vehicles

TECHNICAL DATA
- Voltage: 230 or 110 VAC (available the version at 12/24 VDC)
- Frontal: LCD alphanumeric display of 4 lines and 20 characters
- Service temperature: 0 ºC to 40 ºC (ask for models for extreme climates)
- Identification key reader
- Optional: Thermal printer

CONTROLLER FEATURES:
It controls:
- Supply hour and date
- Users
- Vehicles
- Supplied litres by users and/or vehicles
- Car mileage (or hours) and consumption
- Litre stock of the tank

The services are saved in memory and can be transferred to the computer.
It can work in an autonomous way without being connected to the PC.

The GK-7 PC CONNECTION ALLOWS:
- Making all the inputs, deletions, modifications and queries from the computer.
- To add the generated information in a data base.
- The possibility of exporting the information to an Excel or .txt (text) format in order to be exported to other systems or programs.
- The access control to the information with permissions for different user profiles.
- Multiconsole. Different equipment can be managed in a centralised way, both local and remote.
- *Create and configure alarms.*
- Different communication systems to connect the computer with the controller or controllers: via memory key, via cable, via Ethernet, via GSM modem or GPRS.

SOFTWARE:
There are available three software versions with different features:
- **GK*Suite*** (to be installed in one computer)
- **GK*Suite*** (Client-Server · to be installed in a server and be used from different computers)
- **DIESELPLUS** (Web Service · this software is consulted from the Internet from any PC or smartphone, no installation required).

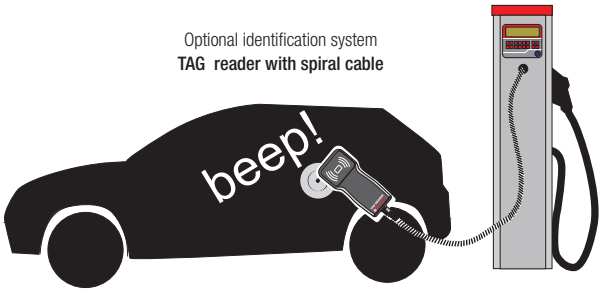
**Refer to compatibilities in page 43.*

GK-7 models
- **GK-7** to be connected to a computer through a communication kit *(refer to page 40)*
- **GK-7M** to control up to **16 dispensers** in a simultaneous way *(refer to page 40)*
- **GK-7Plus** with GPRS communication and data query through the Internet *(refer to page 42)*
- **GK-7PlusM** with GPRS communication and control up to **16 dispensers** in a simultaneous way *(refer to page 42)*

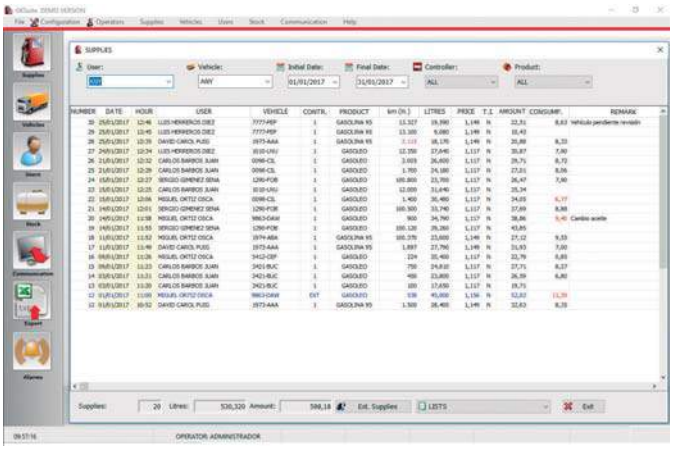
Identification keys

Identification key reader

Optional identification system
TAG reader with spiral cable



Management and control software



Refer to software *page 43*

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1 METALLIC CABINET

Optional:
Thermal printer

mm (approx.) 410 550 400 — kg (approx.) 17

2 TOTEM

mm (approx.) 1,500 385 435 — kg (approx.) 45

3 *PLASTIC BOX*

Identification key reader

Identification keys

PC connection

Pedestal base

Protection sunshield

IP-65 external display

GK-7M adjustable display kit

DESCRIPTION	CODE
1 **GK-7* + METALLIC CABINET · OWN CONSUMPTION CONTROLLER**	25130-CF00000
2 **GK-7* + TOTEM · OWN CONSUMPTION CONTROLLER**	25136-CF00000
3 **GK-7* + *PLASTIC BOX* · OWN CONSUMPTION CONTROLLER**	25330-CF00000

CONFIGURATION:
**By default: 60-user/vehicle memory, identification key reader (iButton)*

USER/VEHICLE MEMORIES

(•) 60-user/vehicle memory	-
(+) 130-user/vehicle memory	FE007002
(+) 1,000 user/vehicle memory	FE007003

	USERS	VEHICLES	SERVICES
GK-7-60	60	60	200
GK-7-130*	130	130	500
GK-7-1000	1000	1000	1000

**Communication with key maximum 100 users/vehicles and 200 services*

(+) internal **THERMAL TICKET PRINTER** (only for the cabinet format)	FE006002
(+) **PROTECTION SUNSHIELD**	FE016001

OPTIONAL IDENTIFICATION SYSTEMS

(+) Proximity card reader	FE017002
(+) Magnetic card reader	FE017003
(+) TAG reader with spiral cable	FE017004

Accessories:

• GK-7 Identification key (pack of 10 units)	251201002
• Hexagonal pedestal base (height 1 m) *(page 59)*	800400013
• PC memory key converter	251208003
• *700 VA / 560 W ONLINE UPS*	805001002
• Proximity card	803304015
• Magnetic card	251201004
• TAG fixed disc identifier for vehicles	251201006
• TAG keyring identifier	251201005

▶ * For the PC connection it is required to acquire a communication kit *(page 41)*.

MULTIHOSE

Kit with exactly the same features and accessories as the above GK-7 but with the capacity to control up to 16 dispensers or pumps in a simultaneous way.

1 **GK-7M* + METALLIC CABINET · OWN CONSUMPTION CONTROLLER**	25253-CF00000
2 **GK-7M* + TOTEM · OWN CONSUMPTION CONTROLLER**	25250-CF00000
3 **GK-7M* + *PLASTIC BOX* · OWN CONSUMPTION CONTROLLER**	25331-CF00000

CONFIGURATION:
**By default: 60-user/vehicle memory, identification key reader (iButton)*

USER/VEHICLE MEMORIES

(•) 60-user/vehicle memory	-
(+) 130-user/vehicle memory	FE007002
(+) 1,000 user/vehicle memory	FE007003

MULTIHOSE Accessories:

• Hose connection module *It must be installed one hose module for each dispenser to be controlled.*	252504000
• IP-65 external display	252504006
• GK-7M adjustable display kit (for the interior)	252504005

▶ * For the PC connection it is required to acquire a communication kit *(page 41)*.

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DESCRIPTION	CODE

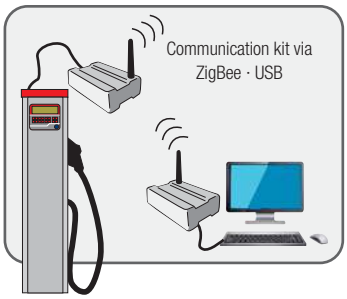
GK-7 & GK-7M COMMUNICATION KITS with GK*Suite* & GK*Suite* C/S SOFTWARE

The communication kits have the required elements to communicate the controller to a computer: converter, licence and software *(refer to page 43)*.
These kits are necessary for the GK-7 and GK-7M controllers.

COMMUNICATION KIT VIA ZIGBEE-USB (wireless)	257180000
C/S (client-server) COMMUNICATION KIT VIA ZIGBEE-USB (wireless)	257600700

- Wireless communication system
- It connects the dispenser via radio with a converter in the PC that is connected through a USB port
- 150 m without barriers

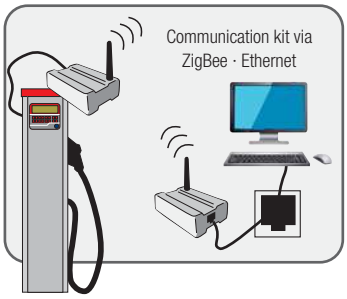
It includes: ZigBee converter + ZigBee-USB + GK*Suite* SQL or C/S software



COMMUNICATION KIT VIA ZIGBEE-ETHERNET (wireless)	257190000
C/S (client-server) COMMUNICATION KIT VIA ZIGBEE-ETHERNET (wireless)	257600500

- Wireless communication system
- It connects the dispenser via radio with an Ethernet converter that can be connected to any LAN port of the net
- 150 m without barriers

It includes: ZigBee converter + ZigBee-Ethernet + GK*Suite* SQL or C/S software



COMMUNICATION KIT VIA MEMORY KEY (iButton)	257120000
C/S (client-server) COMMUNICATION KIT VIA MEMORY KEY (iButton)	257600200

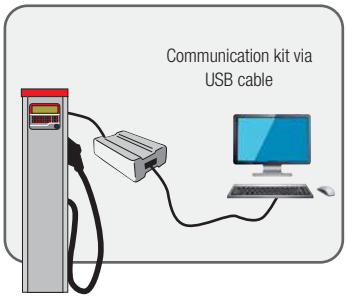
- The memory key is placed in the controller reader to automatically upload and load the data. PC connection through USB converter.

It includes: USB converter + memory key + GK*Suite* SQL or C/S software
(*Limited to 100 users and 200 services in memory)

COMMUNICATION KIT VIA USB CABLE	257160000
C/S (client-server) COMMUNICATION KIT VIA USB CABLE	257600100

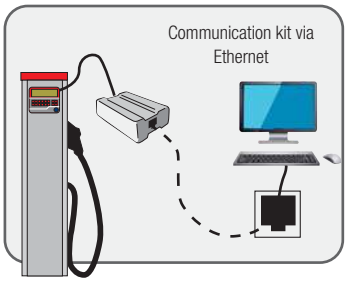
- It is required a *4x0.25 mm* communication cable between the PC and the controller.
- Max. distance: 1000 m

It includes: 485/USB cable converter + GK*Suite* SQL or C/S software



COMMUNICATION KIT VIA ETHERNET CABLE	257130000
C/S (client-server) COMMUNICATION KIT VIA ETHERNET CABLE	257600300

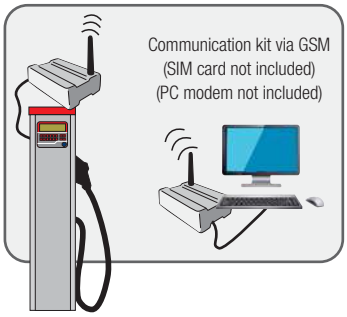
It allows connecting the controller to the computing network as if it was another PC more in the installation. It is required a *4x0.25 mm* communication cable between the converter and the controller. Max. distance: 1000 m. It allows the connection in Wi-fi, VPN or WAN.
It includes: ETHERNET converter + GK*Suite* SQL or C/S software



COMMUNICATION KIT VIA GSM	257140000
C/S (client-server) COMMUNICATION KIT VIA GSM	257600400

The communication is made through SMS messages. A data SIM card must be installed in each and every one of the modems (not included).
It includes: GSM converter for the dispenser + GK*Suite* SQL or C/S software
It is required to have a GSM MODEM in the PC.

GSM MODEM converter for PC	251208020



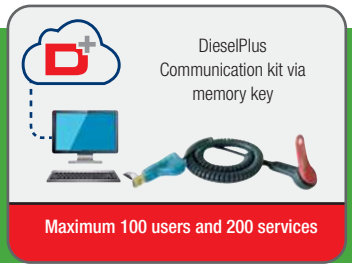
Converters and additional accessories:

• Memory key (red)	251201001
• *4x0.25 mm* shielded cable (m)	800902001
• CONTINET PG-9 protection tube (m)	807609004
• GK-7 additional licence (multistation)	257150000
• GK-7 C/S (client-server) additional licence	257600600
• Memory key converter (it is used to identify the identification keys in the PC)	251208003
• 485/USB cable converter	251208032
• LAN/RS485 Ethernet converter	251208001
• GSM/RS485 GK-7 converter	252208001
• GSM PC converter	251208020
• Set of 2 ZigBee-USB (wireless) converters	251208046
• Set of 2 Zigbee-Ethernet (wireless) converters	251208047

GK-7 & GK-7M COMMUNICATION KITS with DIESELPLUS (web service)

DIESELPLUS COMMUNICATION KIT VIA MEMORY KEY	257500000

It allows the GK-7 and GK-7M connection to the web service site DieselPlus.
Memory key: It is placed in the controller reader in order to automatically upload and load the data. PC connection through USB converter.
It includes: USB converter + memory key + 1-year DieselPlus Fee
(*Limited to 100 users and 200 services in memory)



Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

1 METALLIC CABINET

Optional:
Thermal printer

mm (approx.) 410 550 400 — kg (approx.) 17

2 TOTEM

mm (approx.) 1,500 385 435 — kg (approx.) 45

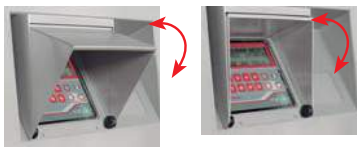
3 *PLASTIC BOX*

Identification key reader

Identification keys

Pedestal base

Protection sunshield



IP-65 external display

GK-7M adjustable display kit

DESCRIPTION	CODE

DIESELPLUS

The GK-7Plus y GK-PlusM controllers have an internal GPRS modem with antenna and they do not need any additional communication kit.
- They are only compatible with the **DieselPlus** software to consult the data through the Internet. **Automatic and wireless (M2M) PC communication).**
- The controller communicates each supply directly to the Internet.

1	**GK-7Plus* + METALLIC CABINET · OWN CONSUMPTION CONTROLLER**	25133-CF00000
2	**GK-7Plus* + TOTEM · OWN CONSUMPTION CONTROLLER**	25139-CF00000
3	**GK-7Plus* + *PLASTIC BOX* · OWN CONSUMPTION CONTROLLER**	25332-CF00000

CONFIGURATION:
**By default: 60-user/vehicle memory, identification key reader (iButton)*

USER/VEHICLE MEMORIES

(•) 60-user/vehicle memory	-
(+) 130-user/vehicle memory	FE007002
(+) 1,000 user/vehicle memory	FE007003
(+) internal **THERMAL TICKET PRINTER** (only for the cabinet format)	FE006002
(+) **PROTECTION SUNSHIELD**	FE016001

OPTIONAL IDENTIFICATION SYSTEMS

(+) Proximity card reader	FE017002
(+) Magnetic card reader	FE017003
(+) TAG reader with spiral cable	FE017004

Accessories:

• GK-7 Identification key (pack of 10 units)	251201002
• Hexagonal pedestal base (height 1 m) *(page 59)*	800400013
• PC memory key converter	251208003
• *700 VA / 560 W ONLINE UPS*	805001002
• Proximity card	803304015
• Magnetic card	251201004
• TAG fixed disc identifier for vehicles	251201006
• TAG keyring identifier	251201005

▶ * For the data query through the Internet it is required to acquire a DieselPlus fee *(page 43)*.

MULTIHOSE

Kit with exactly the same features and accessories as the above GK-7Plus but with the capacity to control up to 16 dispensers or pumps in a simultaneous way.

1	**GK-7PlusM* + METALLIC CABINET · OWN CONSUMPTION CONTROLLER**	25280-CF00000
2	**GK-7PlusM* + TOTEM · OWN CONSUMPTION CONTROLLER**	25283-CF00000
3	**GK-7PlusM* + *PLASTIC BOX* · OWN CONSUMPTION CONTROLLER**	25333-CF00000

CONFIGURATION:
**By default: 60-user/vehicle memory, identification key reader (iButton)*

USER/VEHICLE MEMORIES

(•) 60-user/vehicle memory	-
(+) 130-user/vehicle memory	FE007002
(+) 1,000 user/vehicle memory	FE007003

MULTIHOSE Accessories:

• Hose connection module *It must be installed one hose module for each dispenser to be controlled.*	252504000
• IP-65 external display	252504006
• GK-7M adjustable display kit (for the interior)	252504005

▶ * For the data query through the Internet it is required to acquire a DieselPlus fee *(page 43)*.

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DESCRIPTION	CODE

GK*Suite* SOFTWARE

GK*Suite* SOFTWARE LICENCE	*257100000*

- Licence included in the communication kits
- PC software installation
- The user makes the communications on demand.
- Data query in the PC that is connected to the supply kit
- Installation and use from only one PC

It allows:
- configuring the controller, the tanks and the products
- creating, listing and modifying the users, the vehicles and the groups
- supply lists by users, vehicles or groups
- cost queries by vehicle, user or groups
- data or list export for using with other programs
- fluid stock query and regularization
- fuel or fluid purchase management
- fleet consumption management. It includes the possibility of entering external supplies.
- limit management in the supply* (for one controller)
- balance management per user* (for one controller)
- *creating and configuring alarms*

**(not available with the communication kit via identification key, multiuser or DIESELPLUS)*

Compatible with:
GK-7
GK-7M

GK*Suite* C/S (Client-server) MULTIUSER SOFTWARE

GK*Suite* C/S (Client-server) MULTIUSER SOFTWARE LICENCE	*257600000*

- Software installation in the server
- The user makes the communications on demand.
- Data query from any PC that is connected to the server
- Multiuser

- This software have the same features as the above one, **allowing the simultaneous access to different users installed in one server.**

Compatible with:
GK-7
GK-7M

DIESELPLUS FEES - www.dieselplus.net

- 60-user ANNUAL DIESELPLUS FEE	670500000
- 130-user ANNUAL DIESELPLUS FEE	670500100
- 1,000-user ANNUAL DIESELPLUS FEE	670500200
- 60-user 5-YEAR DIESELPLUS FEE	670500300
- 130-user 5-YEAR DIESELPLUS FEE	670500400
- 1,000-user 5-YEAR DIESELPLUS FEE	670500500

It allows:
- consulting the software through the web site www.dieselplus.net
- automatic communications when making the supply (only the GK-7Plus models)
- the query *from any PC* or smartphone with the Internet connection
- automatic update
- Annual fees of the web maintenance
- Safe data · Automatic back-up copies
- Multiuser: Allowing the use of different users and restricting access.
- Multi-installation: Allowing controlling several installations from the same software.

Compatible with:
GK-7
(through DieselPlus communication kit via identification key · max.100 users and 200 services)
GK-7M
GK-7Plus
GK-7PlusM

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

The software allows to:

- Control the users and vehicles. It allows to activate or deactivate vehicles and users, create groups, assign limits...
- Display and list the done supplies: between dates, filtered by product, vehicles, users or groups. One or several dispensers.
- Control the mileage / hours and consumption, with indicators and alarm of irregular consumption.
- Control of fuel purchases: input and lists of the done purchases in order to exactly control the fuel prices.
- Tank level: Display of the theoretica or real level of the tanks. Configurable level alarms.
- Data export: All the data are exported to Excel or .txt (text) files so that they can be used with other programs of the company.
- Different user profiles: it is possible to limit the software permission for each user and only assign the tools everyone can see or use.
- Assign limits or amounts per user: not valid for the communication kit with memory key (iButton) or multiconsole installation.
- Create automatic alarms: the PC will send via email or show in the display the configured alarms:
  - Alarms of minimum level in the tank
  - Alarms of maximum level
  - Alarm of a wrong tank emptying
  - Filling alarm
  - Warnings by date
  - Warnings by mileage or hours
  - Alarm of wrong input of mileage
  - Alarm of irregular consumption
  - Alarm of irregular supply

Total supply control per user and vehicle:

Manual: Detailed program instructions

GKSuite DEMO VERSION

File | Configuration | Operators | Supplies | Vehicles | Users | Stock | Communication | Help

Supplies | Vehicles | Users | Stock | Communication | Export | Alarms

SUPPLIES

User: ANY | Vehicle: ANY | Initial Date: 01/01/2017 | Final Date: 31/01/2017 | Controller: ALL | Product: ALL

NUMBER	DATE	HOUR	USER	VEHICLE	CONTR.	PRODUCT	km (H.)	LITRES	PRICE	T.I.	AMOUNT	CONSUMP.	REMARK
30	25/01/2017	12:46	LUIS HERREROS DIEZ	7777-PEP	1	GASOLINA 95	13.327	19,590	1,149	N	22,51	8,63	Vehículo pendiente revisión
29	25/01/2017	12:45	LUIS HERREROS DIEZ	7777-PEP	1	GASOLINA 95	13.100	9,080	1,149	N	10,43		
28	25/01/2017	12:35	DAVID CAROL PUIG	1973-AAA	1	GASOLINA 95	2.115	18,170	1,149	N	20,88	8,33	
27	24/01/2017	12:34	LUIS HERREROS DIEZ	1010-UVU	1	GASOLEO	12.350	27,640	1,117	N	30,87	7,90	
26	21/01/2017	12:32	CARLOS BARBOS JUAN	0098-CIL	1	GASOLEO	2.005	26,600	1,117	N	29,71	8,72	
25	21/01/2017	12:29	CARLOS BARBOS JUAN	0098-CIL	1	GASOLEO	1.700	24,180	1,117	N	27,01	8,06	
24	15/01/2017	12:27	SERGIO GIMENEZ SENA	1290-FOB	1	GASOLEO	100.800	23,700	1,117	N	26,47	7,90	
23	15/01/2017	12:25	CARLOS BARBOS JUAN	1010-UVU	1	GASOLEO	12.000	31,640	1,117	N	35,34		
22	15/01/2017	12:06	MIGUEL ORTIZ OSCA	0098-CIL	1	GASOLEO	1.400	30,480	1,117	N	34,05	6,77	
21	14/01/2017	12:01	SERGIO GIMENEZ SENA	1290-FOB	1	GASOLEO	100.500	33,740	1,117	N	37,69	8,88	
20	14/01/2017	11:58	MIGUEL ORTIZ OSCA	9863-DAW	1	GASOLEO	900	34,790	1,117	N	38,86	9,40	Cambio aceite
19	14/01/2017	11:55	SERGIO GIMENEZ SENA	1290-FOB	1	GASOLEO	100.120	39,260	1,117	N	43,85		
18	11/01/2017	11:52	MIGUEL ORTIZ OSCA	1974-ABA	1	GASOLINA 95	100.370	23,600	1,149	N	27,12	9,55	
17	11/01/2017	11:49	DAVID CAROL PUIG	1973-AAA	1	GASOLINA 95	1.897	27,790	1,149	N	31,93	7,00	
16	09/01/2017	11:26	MIGUEL ORTIZ OSCA	5412-CEF	1	GASOLEO	224	20,400	1,117	N	22,79	0,85	
15	09/01/2017	11:23	CARLOS BARBOS JUAN	3421-BUC	1	GASOLEO	750	24,810	1,117	N	27,71	8,27	
14	03/01/2017	11:21	CARLOS BARBOS JUAN	3421-BUC	1	GASOLEO	450	23,800	1,117	N	26,59	6,80	
13	03/01/2017	11:20	CARLOS BARBOS JUAN	3421-BUC	1	GASOLEO	100	17,650	1,117	N	19,71		
12	01/01/2017	11:00	MIGUEL ORTIZ OSCA	9863-DAW	EXT	GASOLEO	530	45,000	1,156	N	52,02	11,39	
12	01/01/2017	10:52	DAVID CAROL PUIG	1973-AAA	1	GASOLINA 95	1.500	28,400	1,149	N	32,63	8,35	

LISTS | Exit

09:57:16

STOCK

DEPOSITO 1

Level probe values 27/09/2016 09:50

Level: 800,00 mm

Volume: 7.542,00 Litres

Alarm - Relay activated

Minimum alarm: NO

Maximum alarm: NO

PRODUCTO 1

37%

History

Theoretical values

Volume: 5.000 Litres

Capacity: 20000 Litres

Considered Tank value: 0,00 €

Considered Litre value: 0,000 €

Input | See Register | Regularization | Situation List | Active alarms | Movement List | Suppliers | Recalculate

Exit

Stock:
Product stock and input control

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

Lists

It is possible to easily compare the different user and vehicle consumptions and quickly detect the irregular consumptions.
You can select among different list options like the litre total per each user, each vehicle, all the detailed supplies...

USER SERVICES

Trans Demo LOGO

Trans Demo
Partida Horta d'Amunt s/n
25600 Balaguer
Lleida
Id. Fiscal: A25031154
Telf.: 973451072 -
Fax: 973445000 e-mail: dieselplus@gespasa.es

Stations:	All stations	User group:	All	Starting date:	01/03/2009
Own station:	Balaguer	User:	All	End date:	15/03/2012
Console:	All	Vehicle group:	All	Bonus:	All
Product:	All	Vehicle:	All		

User name	Number	Tax identification	Mobile phone	User group
CARLOS BARBOS JUAN	10			SECCION 1

Date	Vehicle	km/hours	Station	Console	Product	% Bio	Amount	Sobreimpresión
04/03/2012 16:43:00	9863-DSW	231509 Km	Balaguer	CONSOLE	DIESEL	0,00	320,120	0,00
06/03/2012 15:34:00	3421-BVC	23602 Km	Balaguer	CONSOLE	DIESEL	0,00	33,230	7,27
12/03/2012 13:06:00	0098-CDL		Balaguer	CONSOLE	DIESEL	0,00	28,900	0,00
Service number:	3						382,250	

User name	Number	Tax identification	Mobile phone	User group
LUIS HERREROS DIEZ	2			SECCION 1

Date	Vehicle	km/hours	Station	Console	Product	% Bio	Amount	Sobreimpresión
03/03/2012 18:56:00	5412-CVF	4561 h	Balaguer	CONSOLE	DIESEL	0,00	741,000	0,00
Service number:	1						741,000	

User name	Number	Tax identification	Mobile phone	User group
MIGUEL ORTIZ OSCA	1			USUARIOS GENERAL

Date	Vehicle	km/hours	Station	Console	Product	% Bio	Amount	Sobreimpresión
02/03/2012 8:56:00	3421-BVC	23145 Km	Balaguer	CONSOLE	DIESEL	0,00	45,890	0,00
11/03/2012 19:12:00	3421-BVC	23908 Km	Balaguer	CONSOLE	DIESEL	0,00	42,450	13,87
Service number:	2						88,340	

User name	Number	Tax identification	Mobile phone	User group
MOISES BERMUDEZ ROCA	5			USUARIOS GENERAL

Date	Vehicle	km/hours	Station	Console	Product	% Bio	Amount	Sobreimpresión
02/03/2012 9:36:00	0098-CDL		Balaguer	CONSOLE	DIESEL	0,00	15,450	0,00
02/03/2012 10:36:00	GI-4130-BN	145671 Km	Balaguer	CONSOLE	DIESEL	0,00	690,450	0,00
04/03/2012 19:46:00	1290-FCB		Balaguer	CONSOLE	DIESEL	0,00	25,450	0,00
05/03/2012 12:16:00	GI-4130-BN	147020 Km	Balaguer	CONSOLE	DIESEL	0,00	720,320	53,40
06/03/2012 16:49:00	1290-FCB		Balaguer	CONSOLE	DIESEL	0,00	28,980	0,00

15/03/2012 15:44:30 — DIESELPLUS — Dieselplus (C)2009 — 1/2

Similar features to the GK*Suite* SQL software but with the Internet access

DIESELPLUS WWW.DIESELPLUS.NET

Technical and commercial assistance | Help

Home | Demo FLEXTECH | Balaguer | Demo | Operator | Close

Direct Access

Users | Vehicles | Services | Services by user | Services by vehicle | Tanks | Tank summary

- Direct Access
- Fleet and users
- Services
- Stock
- Reports
- Utilities

Services

Search

Properties | Refresh | Reports

Station	All stations	User group	All user groups
Own Station	Balaguer	User	All users
Console	All consoles	Vehicle group	All vehicle groups
Starting date	01/03/2012	Vehicle	All vehicles
End date	15/03/2012		

Search

Date	User	Vehicle	km/hours	Quantity	Color	Amount	Consumpti
13/03/2012 12:00:00	MOISES BERMUDEZ	GI-4130-BN	150147	640,980		628,16	44,36
12/03/2012 13:06:00	CARLOS BARBOS	0098-CDL	0	28,900		21,94	0,00
11/03/2012 20:13:00	SERGIO GIMENEZ	9863-DSW	233520	345,090		261,92	33,18
11/03/2012 19:12:00	MIGUEL ORTIZ	3421-BVC	23908	42,450		32,22	13,87
10/03/2012 06:23:00	MOISES BERMUDEZ	GI-4130-BN	148702	589,450		447,39	35,04
07/03/2012 15:13:00	SERGIO GIMENEZ	9863-DSW	232480	265,290		201,36	27,32
06/03/2012 16:49:00	MOISES BERMUDEZ	1290-FCB	0	28,980		22,00	0,00
06/03/2012 15:34:00	CARLOS BARBOS	3421-BVC	23602	33,230		25,22	7,27
05/03/2012 12:16:00	MOISES BERMUDEZ	GI-4130-BN	147020	720,320		546,72	53,40
04/03/2012 19:46:00	MOISES BERMUDEZ	1290-FCB	0	25,450		19,32	0,00

DIESELPLUS WWW.DIESELPLUS.NET

Technical and commercial assistance | Help

Home | Demo FLEXTECH | Balaguer | Demo | Operator | Close

Direct Access

Users | Vehicles | Services | Services by user | Services by vehicle | Tanks | Tank summary

- Direct Access
- Fleet and users
- Services
- Stock
- Reports
- Utilities

Tanks

Search

New | Edit | Delete | Refresh | Reports

New input | New regularization

Station	Balaguer
Product	All products

Search

Station	Description	Product	Level	Current litres
Balaguer	TANK 1	DIESEL	59,00%	14.714,53
Balaguer	TANK 2	OIL	0,00%	0,00

VEHICLE SERVICES

DIESELPLUS
Partida Horta d'Amunt s/n
25600 Balaguer
Lleida
Id. Fiscal: A25031154
Telf.: 973451072 -
Fax: 973445050 e-mail: dieselplus@dieselplus.net

Stations:	All stations	User group:	All	Starting date:	01/01/2014
Own station:	Balaguer	User:	All	End date:	31/01/2014
Console:	All	Vehicle group:	All	Bonus:	All
Product:	All	Vehicle:	All		

Vehicle registration nr.	Number	Theoratic consumption	% Dev.	Mark	Model	Vehicle group
9863-DSW	2	30,00	10,00			VEHICULOS GENERAL

Date	User	km/hours	Station	Console	Product	% Bio	Amount	Consumption
04/01/2014 16:43:00	CARLOS BARBOS JUAN	231509 Km	Balaguer	CONSOLA1	DIESEL	0,00	320,120	0,00
07/01/2014 15:13:00	SERGIO GIMENEZ SENA	232480 Km	Balaguer	CONSOLA1	DIESEL	0,00	265,290	27,32
11/01/2014 20:13:00	SERGIO GIMENEZ SENA	233520 Km	Balaguer	CONSOLA1	DIESEL	0,00	345,090	33,18
18/01/2014 7:20:00	MIGUEL ORTIZ OSCA	234718 Km	Balaguer	CONSOLA1	DIESEL	0,00	270,980	22,62
Service number:	4						1.201,480	

0098-CDL	4		EMPRESA 1

Date	User	km/hours	Station	Console	Product	% Bio	Amount	Consumption
02/01/2014 9:36:00	MOISES BERMUDEZ ROCA		Balaguer	CONSOLA1	DIESEL	0,00	15,450	0,00
12/01/2014 13:06:00	CARLOS BARBOS JUAN		Balaguer	CONSOLA1	DIESEL	0,00	28,900	0,00
22/01/2014 17:41:00	LUIS HERREROS DIEZ		Balaguer	CONSOLA1	DIESEL	0,00	23,530	0,00
Service number:	3						67,880	

1290-FCD	5		EMPRESA 1

Date	User	km/hours	Station	Console	Product	% Bio	Amount	Consumption
04/01/2014 19:46:00	MOISES BERMUDEZ ROCA		Balaguer	CONSOLA1	DIESEL	0,00	25,450	0,00
06/01/2014 16:49:00	MOISES BERMUDEZ ROCA		Balaguer	CONSOLA1	DIESEL	0,00	28,980	0,00
23/01/2014 6:56:00	MOISES BERMUDEZ ROCA		Balaguer	CONSOLA1	DIESEL	0,00	28,980	0,00
Service number:	3						83,410	

3421-BVC	12	0,50	10,00			VEHICULOS GENERAL

Date	User	km/hours	Station	Console	Product	% Bio	Amount	Consumption

29/05/2014 10:52:08 | DIESELPLUS Dieselplus (C)2009 | 1/2

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

COMPACT SUPPLY KITS WITH GK-7 or GK-7Plus CONTROLLER

The compact supply kits with controller are suitable for the diesel own consumption supply, measuring, and control for fleet vehicles.

Composed of:
- Chassis made of steel and stainless steel. Finished with brilliant epoxy paint with special interior and exterior treatment against corrosion. Weatherproof
- 4 m Ø19 or 25 mm (depending on the pump) double layer delivery hose with adapters in both ends

Controller features:
- The GK-7 controller is suitable for the supply control allowing its use only to authorized personnel.
- User and/or vehicle identification through codes and/or identification key
- Supply with or without litre preset.

It controls:
- supply hour and date
- Users: 60 or 130 (depending on the model)
- Vehicles
- Supplied litres
- Car mileage (or hours) and consumption
- Stock of the litres in the tank

The services are saved in memory and can be transferred to a computer through the following communication kits:
- via memory key (maximum 100 users)
- via USB/RS-485 cable
- via GSM modem
- via ETHERNET
- via ZIGBEE (wireless)

The query and configuration operation can be done from the computer through the GK*Suite* software or directly from the supply kit with the code or the identification key, being able to:
- Input or delete users and/or vehicles.
- Assign or change the codes or the identification keys of the users and/or vehicles.
- Calibrate the supply kit.
- Consult the done supplies.
- Consult and regularize the tank stock.
- Configure the communication and other options of the controller.
- Create and configure alarms.

The supply kits with GK-7Plus do not need the communication kit because they make the communications automatically, saving the data on the Internet. Access the supply kit and the data through the web site: www.dieselplus.net subject to the acquisition of a licence *(page 43)*.

45-75 l/min

±0.5%

PC connection

Refer to Software · *page 43-46*

DESCRIPTION | CODE

COMPACT SUPPLY KITS WITH GK-7 CONTROLLER

Diesel	Voltage	Controller GK-7	Automatic nozzle	Flow l/min	CODE
COMPACT 50K-60 230	230 VAC	●	PA-60	40-50	28540-CF00000
COMPACT 50K-60 12	12 VDC	●	PA-60	35-45	28580-CF00000
COMPACT 75K-60 230	230 VAC	●	PA-80	70-80	28640-CF00000
COMPACT 90K-60 12	12 VDC	●	PA-80	70-80	28590-CF00000
COMPACT 100K-60 230	230 VAC	●	PA-120	75-85	28650-CF00000

CONFIGURATION:
**By default: 60-user/vehicle memory, identification key reader (iButton)*

USER/VEHICLE MEMORIES

(•) 60-user/vehicle memory · 200 services	-
(+) 130-user/vehicle memory · 500 services*	FE007002

** Communication with key maximum 100 users/vehicles and 200 services*

Optional:

• GK-7 Identification key (pack of 10 units)	251201002
• Hexagonal pedestal base (height 1 m) *(page 59)*	800400015
• F1" aluminium flange kit (special for COMPACT)	800003029

▶ * For the PC connection it is required to acquire a communication kit *(page 41)*.

Pedestal base

F1" aluminium flange kit

Identification keys

COMPACT SUPPLY KITS WITH GK-7Plus CONTROLLER

Diesel	Voltage	Controller GK-7Plus	Automatic nozzle	Flow l/min	CODE
COMPACT 50Plus-60 230	230 VAC	●	PA-60	40-50	28541-CF00000
COMPACT 50Plus-60 12	12 VDC	●	PA-60	35-45	28583-CF00000
COMPACT 75Plus-60 230	230 VAC	●	PA-80	70-80	28641-CF00000
COMPACT 90Plus-60 12	12 VDC	●	PA-80	70-80	28592-CF00000
COMPACT 100Plus-60 230	230 VAC	●	PA-120	75-85	28651-CF00000

CONFIGURATION:
**By default: 60-user/vehicle memory, identification key reader (iButton)*

USER/VEHICLE MEMORIES

(•) 60-user/vehicle memory · 200 services	-
(+) 130-user/vehicle memory · 500 services*	FE007002

** Communication with key maximum 100 users/vehicles and 200 services*

Optional:

• GK-7 Identification key (pack of 10 units)	251201002
• Hexagonal pedestal base (height 1 m) *(page 59)*	800400015
• 60-user annual DIESELPLUS fee	670500000
• 130-user annual DIESELPLUS fee	670500100

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

±0,5%

45-90 l/min

PC Connection

Refer to Software · *page 43-46*

DESCRIPTION | CODE

TOTEM K · TOTEM Plus
Supply kits with own consumption controller

Supply kits with the same features as the COMPACT ones but assembled in a column chassis for its direct fixation to the ground.

TOTEM K · SUPPLY KITS WITH GK-7 OWN CONSUMPTION CONTROLLER

Diesel	Voltage	Controller GK-7	Automatic nozzle	Flow l/min	
TOTEM 50K-60-230	230 VAC	●	PA-60	40-50	27210-CF00000
TOTEM 75K-60-230	230 VAC	●	PA-80	65-70	27340-CF00000
TOTEM 100K-60-230	230 VAC	●	PA-120	75-90	27350-CF00000

CONFIGURATION:
**By default: 60-user/vehicle memory, identification key reader (iButton)*

USER/VEHICLE MEMORIES

(•) 60-user/vehicle memory · 200 services	-
(+) 130-user/vehicle memory · 500 services*	FE007002

** Communication with key maximum 100 users/vehicles and 200 services*

Optional:

• GK-7 Identification key (pack of 10 units)	251201002
• Communication kit via MEMORY KEY	257120000
• Communication kit via USB CABLE	257160000
• Communication kit via ETHERNET	257130000
• Communication kit via GSM	257140000
• Communication kit via DIESELPLUS MEMORY key	257500000
• Communication kit via ZIGBEE-USB (wireless)	257180000
• Communication kit via ZIGBEE-ETHERNET (wireless)	257190000
• *FG-100 microfilter kit (TOTEM 50/75/100 inside)*	27231
• GENIUS level indicator kit (inside) DISCONTINUED	272400000

TOTEM Plus · SUPPLY KITS WITH GK-7Plus OWN CONSUMPTION CONTROLLER

Diesel	Voltage	Controller GK-7Plus	Automatic nozzle	Flow l/min	
TOTEM 50PLUS-60-230	230 VAC	●	PA-60	40-50	27212-CF00000
TOTEM 75PLUS-60-230	230 VAC	●	PA-80	65-70	27341-CF00000
TOTEM 100PLUS-60-230	230 VAC	●	PA-120	75-90	27351-CF00000

CONFIGURATION:
**By default: 60-user/vehicle memory, identification key reader (iButton)*

USER/VEHICLE MEMORIES

(•) 60-user/vehicle memory · 200 services	-
(+) 130-user/vehicle memory · 500 services*	FE007002

** Communication with key maximum 100 users/vehicles and 200 services*

Optional:

• GK-7 Identification key (pack of 10 units)	251201002
• 60-user annual DIESELPLUS fee	670500000
• 130-user annual DIESELPLUS fee	670500100
• *FG-100 microfilter kit (TOTEM 50/75/100 inside)*	27231
• GENIUS level indicator kit (inside) DISCONTINUED	272400000

Identification keys

GENIUS level indicator kit for TOTEM

DISCONTINUED

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±0.5%

70-130 l/min

DESCRIPTION	CODE

SHK · TECNO SUPPLY KITS WITH OWN CONSUMPTION CONTROLLER · EExe/d

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

Chassis:
Made of steel. Special interior and exterior treatment against corrosion. Brilliant epoxy paint finish. Weatherproof

Hydraulic group composed of:
Pump: Self-suction, eccentric of self-adjusting blades with gas separator · Free flow: 70-80 l/min (SHK-70C or CD) · 130 l/min (SHK-130C or CD) · recirculation bypass valve, check valve, filter
Meter: Made of aluminium of 4 pistons with positive displacement · Accuracy: **0.2%** · 2-channel pulser of 100 pulses per litre and mechanical totalizer
Motor: 1 kW 230/400 VAC · motor EExd with certificate ATEX, triphase, with IP-55 protection; or *1 kW* 230 VAC · motor EExd with certificate ATEX, single-phase, with IP-55 protection

SHK-130C or CD model: 1.5 kW 230/400 VAC · motor EExd with certificate ATEX, triphase, with IP-55 protection

GK-7 own consumption controller

It is supplied with:
- 4 m Ø25 mm double layer delivery diesel hose with adapters in both ends 1"
- 1 or 2 PA-80 automatic nozzles with swivel (SHK-70C · *SHK-70CD*)
- 1 or 2 PA-120 automatic nozzles (SHK-130C · SHK-130CD)

1 HOSE

SUPPLY KITS WITH GK-7 OWN CONSUMPTION CONTROLLER

SHK-70C · 130 USERS · 500 SERVICES · TRIPHASE	70-80 l/min	26390-CF00000
SHK-70C · 130 USERS · 500 SERVICES · SINGLE-PHASE	70-80 l/min	26391-CF00000
SHK-130C · 130 USERS · 500 SERVICES · TRIPHASE	130 l/min	26450-CF00000

SUPPLY KITS WITH GK-7Plus OWN CONSUMPTION CONTROLLER (GPRS)

SH-70Plus · 130 USERS · 500 SERVICES · TRIPHASE	70-80 l/min	26395-CF00000
SH-70Plus · 130 USERS · 500 SERVICES · SINGLE-PHASE	70-80 l/min	26396-CF00000
SH-130Plus · 130 USERS · 500 SERVICES · TRIPHASE	130 l/min	26455-CF00000

2 HOSES

DOUBLE SUPPLY KITS WITH GK-7 OWN CONSUMPTION CONTROLLER

SHK-70CD · 130 USERS · 500 SERVICES · TRIPHASE	70-80 l/min	26410-CF00000
SHK-70CD · 130 USERS · 500 SERVICES · SINGLE-PHASE	70-80 l/min	26411-CF00000
SHK-130CD · 130 USERS · 500 SERVICES · TRIPHASE	130 l/min	26470-CF00000
SHK-70/130CD · 130 USERS · 500 SERVICES · TRIPHASE	70 + 130 l/min	26480-CF00000

DOUBLE SUPPLY KITS WITH GK-7Plus OWN CONSUMPTION CONTROLLER (GPRS)

SH-70PlusD · 130 USERS · 500 SERVICES · TRIPHASE	70-80 l/min	26414-CF00000
SH-70PlusD · 130 USERS · 500 SERVICES · SINGLE-PHASE	70-80 l/min	26415-CF00000
SH-130PlusD · 130 USERS · 500 SERVICES · TRIPHASE	130 l/min	26471-CF00000
SH-70/130PlusD · 130 USERS · 500 SERVICES · TRIPHASE	70 + 130 l/min	26484-CF00000

CONFIGURATION:
**By default: 130-user/vehicle memory, identification key reader (iButton)*

USER/VEHICLE MEMORIES

(•) 130-user/vehicle memory · 500 services* ** Communication with key maximum 100 users/vehicles and 200 services*	-
(+) 1,000-user/vehicle memory · 1,000 services	FE007003
(+) internal **THERMAL TICKET PRINTER** (SHK)	FE006002
(+) **PROTECTION SUNSHIELD**	FE016001

OPTIONAL IDENTIFICATION SYSTEMS

(+) Proximity card reader	FE017002
(+) Magnetic card reader	FE017003
(+) TAG reader with spiral cable	FE017004

Optional:

• Flexible suction tube with 2" flange	807610002
• 4 m Ø19 mm antistatic unleaded petrol hose with adapters in both ends	803406009
• Gas recovery kit for petrol · Phase II	268300000
• PA-80 1" · Automatic nozzle for unleaded petrol *(page 57)*	47254
• FG-150 microfilter · 10-litre capacity · Microfiltering of 5 µm (micron) *(page 54)*	66050
• FG-300/15 microfilter · 15-litre capacity · Microfiltering of 15 µm (micron) *(page 54)*	66192
• *700 VA / 560 W ONLINE UPS*	805001002
• GK-7 Identification key (pack of 10 units)	251201002
• Proximity card	803304015
• Magnetic card	251201004
• TAG fixed disc identifier for vehicles	251201006
• TAG keyring identifier	251201005

SMHK-90C-130 · BIODIESEL MIXER SUPPLY KIT WITH GK-7 OWN CONSUMPTION CONTROLLER

Biodiesel

26760

The supply kit is defined as a fuel supply and measure set, being able to supply a mixed fluid of 2 different products.
This kit has two professional hydraulic groups, whose electronics allows adjusting the proportion of bio oil and diesel you want.

SHK-70C

SHK-70CD

Refer to the COMMUNICATION KITS & SOFTWARE *pages 43-46*

SMHK-90C

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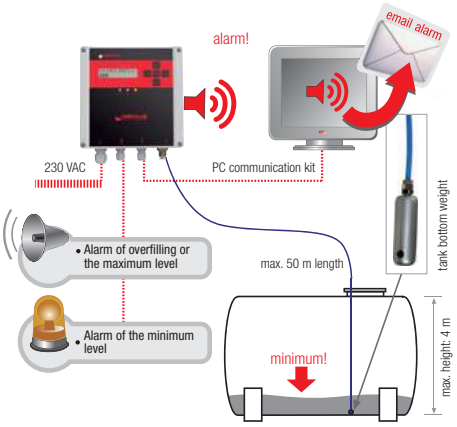
mm (approx.) 185 160 60

kg (approx.) 2.50



DESCRIPTION	CODE

APPLICATION

- GENIUS is a level monitor in atmospheric tanks.
- The level measurement is made measuring the static pressure of the liquid height through a tube into the tank.
- It allows measuring the level in rectangular and cylindrical, horizontal or vertical tanks with a maximum height of 4 m.
- Level reading in height (m or inches) or volume (litres or gallons)
- It is suitable for liquids with a maximum viscosity of 30 cSt.

COMPOSED OF

- Probe with 10 metres of tube (extending at 50 m maximum) of 6 mm and with a weight in the other end that is immersed in the liquid until touching the bottom.
- Control unit to see the liquid level and configuration
- Two contacts to connect two alarm or control devices
- PC communication connection via RS485 port
- Acoustic alarm in its inner of 90 dB and 2400 Hz

FEATURES

- IP-55 protection
- It is not suitable for ATEX classified installations
- Accuracy: ±1 % *in height*

According to the programmed alarm levels, the control unit will activate or deactivate the contacts, acting as a remote switch for the alarm device operation or the connected control kit operation.

GENIUS · 230 VAC **GENIUS · 15-32 VDC**	25730 25737

Valid for diesel and other non-corrosive liquids.

GENIUS-LUBE · 230 VAC	25731

Valid for lubricants of viscosity 30 -1000 cSt.

GENIUS-INOX · 230 VAC	25732

Valid for AdBlue or phytosanitary fluids.

Optional:

• Communication kit via USB CABLE	257310000
• Communication kit via ETHERNET	257330000
• Communication kit via ZigBee-USB (wireless)*	257360000
• Communication kit via ZigBee-Ethernet (wireless)*	257370000

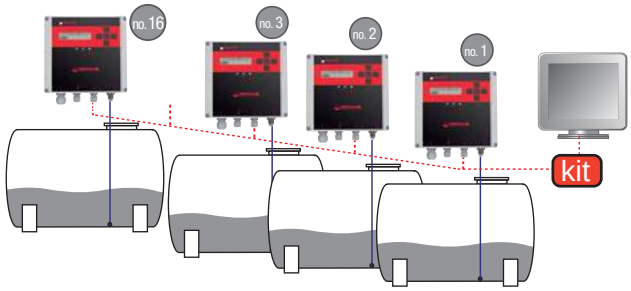
max. 200 m in an open area

■ Communication kit via USB CABLE (SOFTWARE + converter)

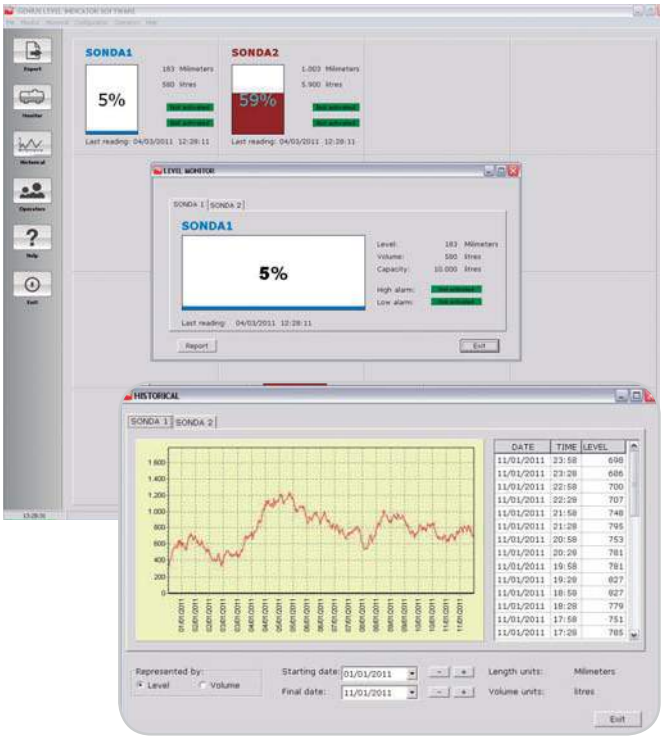
code 257310000

■ Communication kit via ETHERNET (SOFTWARE + converter)

code 257330000



■ It is possible to connect a maximum of 16 level indicators to a PC through 1 communication kit.



Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION	CODE

APPLICATION

- The GENIUS MODEM PLUS KIT is the communication kit to be connected to the GENIUS level indicator with the Cloud Software: www.dieselplus.net through GPRS communication.
- The tank data as levels, alarms... can be consulted from any device connected to the Internet through the web site www.dieselplus.net

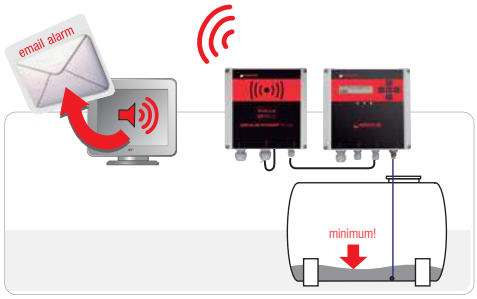
COMPOSED OF

- GPRS modem
- Metallic support for the antenna
- Antenna

FEATURES

- Voltage: 230 VAC
- RS485 output to connect the gauge
- It is possible to connect up to 16 GENIUS level indicators in series.

According to the programmed alarm levels, the control unit will activate or deactivate the contacts, like a remote switch to start the alarm devices or the connected control kits.



KIT	
GENIUS MODEM PLUS KIT (antenna + support)	25736

SOFTWARE LICENCE	
GENIUS DieselPlus SOFTWARE LICENCE* · Annual fee	670800200
**It is required to install a SIM card.*	
It is also required to ask for:	
485/USB cable converter	251208032

DIESELPLUS is the Cloud software that allows the data query and management obtained from the GENIUS level indicator + the GENIUS MODEM PLUS KIT.

The software is available from any device connected to the Internet.

It is not necessary any software installation because it is an online service. The application can be used from any device connected to the Internet any time.

Among other services it allows controlling:

- The continuous level in real time
- Minimum stock alarm
- Filling alarm
- The configuration of different alarms
- Alarm history
- The remittance of automatic emails of the maximum or minimum alarms
- Level history
- Data export to Excel or .txt (text) format
- The configuration of the type and capacity of tank, units, alarms, users
- Tank groups: by zones, routes...
- The configuration and assignation of the permissions to different users
- Fluid purchases/inputs in the tanks
- Suppliers

The GENIUS MODEM PLUS KIT can have connected a maximum of 16 GENIUS level indicators.

FEATURES

AUTOMATIC AND WIRELESS COMMUNICATION:
The GENIUS level indicator is communicated through the GENIUS MODEM PLUS KIT through GPRS with the DIESELPLUS server. This communication is automatic without any user's intervention.

MULTISTATION:
One or more users can control different level indicators (tanks) placed in different geographical zones.

MULTIUSER:
The software can be used by different users at the same time. Each user will be able to access only their specific assigned areas.
For the shared service management (end customer / fuel distributor) it is established a hierarchical operator level with different privileges and restricted accesses.

MULTIACCESS / MULTIINSTALLATION:
All the users, who have their user name and password, will be able to access the DIESELPLUS software from any computer connected to the Internet any time.
It is possible to manage the information of many installations from the same user.

SAFE DATA:
Any data is communicated with the DIESELPLUS server automatically.

ISSUE OF REPORTS:
Lists and statistics for an easy interpretation of the information relating to the alarms, levels, history...

TECHNICAL SUPPORT · via E-MAIL or TELEPHONE:
Direct email or telephone number for the after-sales service in order in order to solve any doubt or incidence.

SOFTWARE ▶

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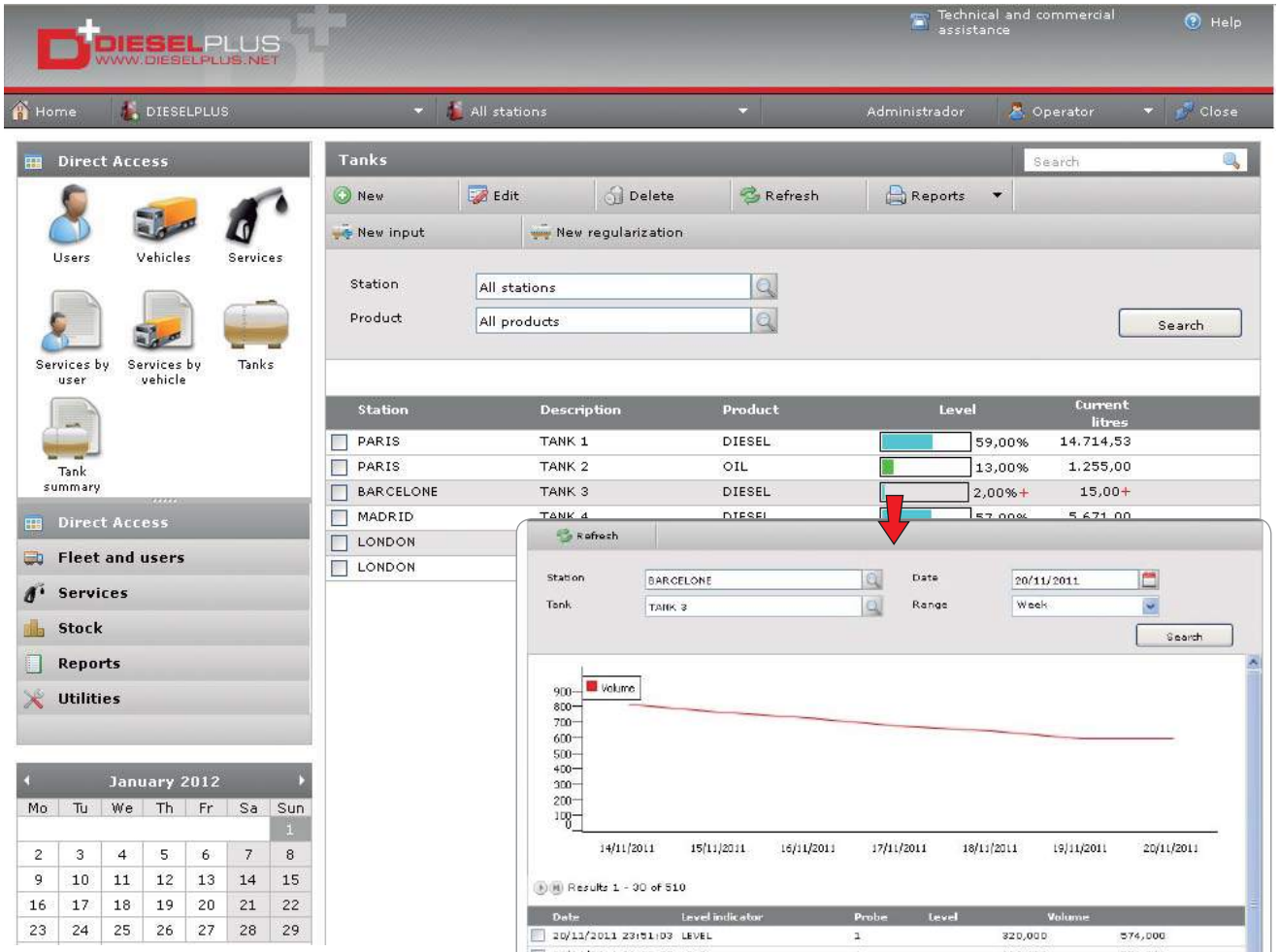


KIT ADVANTAGES:

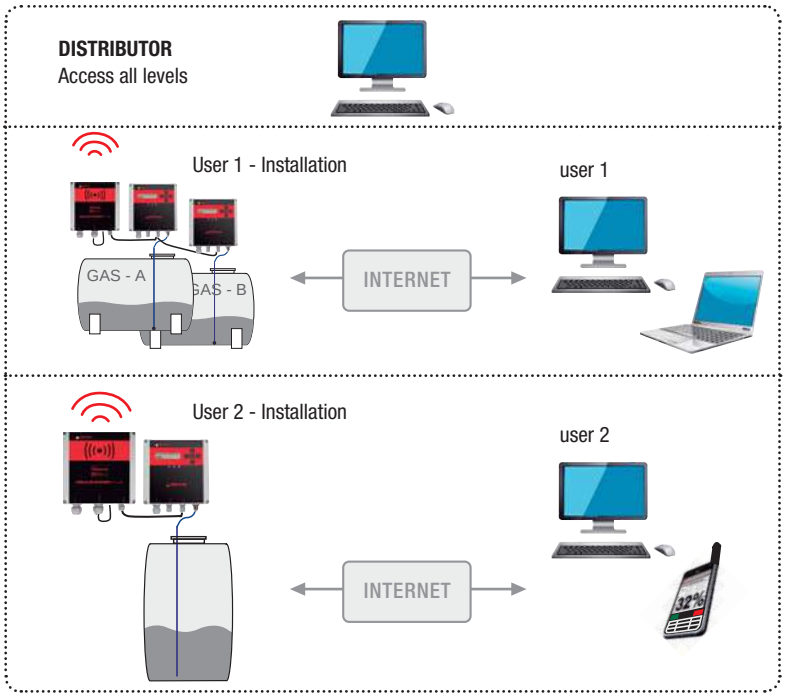
END USER:

In the tank:
- Continuous level reading
- Digital display that shows the level in the tank
- Configurable acoustic alarm of the minimum level
- Acoustic alarm of overfilling

In the PC through the Internet:
- Access the program through user name and password
- Level tank query, in millimetres (inches) or litres (gallons)
- Automatic alarms of the maximum and minimum levels
- Automatic remittance of the alarm email
- Level and alarm history

FUEL DISTRIBUTOR:

- It gives a kit with added value for the end user.
- It avoids «in extremis» orders.
- Route organization
- Maximum level alarms in order to know when the tank is fill
- Minimum level alarms
- Automatic remittance of the alarm email
- Hierarchic management of users. Each user will be able to consult the assigned tank levels.
- It is possible to manage the information of many installations from the same user.



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DESCRIPTION CODE

Automatic hose-reels made of painted sheet for the diesel transfer.

EGC · HIGH FLOW HOSE-REELS

- With and without hose
- 10 or 15 m antistatic double layer hose
- Rollers in the hose delivery for a correct hose auto-location
- The delivery arm can be mounted in different positions.
- Max. hose-reel pressure: 40 bar · Hose pressure: 10 bar

Model	Hose metres	Diameter	Max. pressure	
EGC-10 1”	10	1”	40 bar	807303023
EGC-10 3/4”	10	3/4”	40 bar	807303022
EGC-15 3/4”	15	3/4”	40 bar	807303021
EGC-SM 1”	without hose	1”	40 bar	807303020

EGC

SERIES 5 HOSE-REELS (without hose)

Model	Hose metres	Diameter	Max. pressure	
5.10.20	10	3/4”	30 bar	807303008
5.15.20	15	3/4”	30 bar	807303009
5.20.20	20	3/4”	50 bar	807303028
5.20.20 INOX	20	3/4”	50 bar	807303029

SERIES 5

SERIES 6 HOSE-REELS (without hose)

Model	Hose metres	Diameter	Max. pressure	
6.20.20	20	3/4”	40 bar	807303012
6.40.20	40	3/4”	40 bar	807303014
6.20.25	20	1”	40 bar	807303015
6.30.25	30	1”	40 bar	807303016
6.50.25	50	1”	40 bar	807303018

SERIES 6

SERIES 9 HOSE-REELS (without hose)

Model	Hose metres	Diameter	Max. pressure	
9.20.20	20	3/4”	45 bar	807303006
9.20.20 INOX	20	3/4”	45 bar	807303007

SERIES 9

SERIES 10 HOSE-REELS (without hose)

Model	Hose metres	Diameter	Max. pressure	
10.20.20	20	3/4”	45 bar	807303010
10.20.20 INOX	20	3/4”	45 bar	807303011

DISCONTINUED

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

FG-100
FG-100 BIO
FG-100G

218 mm (approx.) 171 — 299
kg (approx.) 1.92

Filtering element spare kit

Microfilter key

FG-150

Filtering element spare

mm (approx.) 260 — 435
kg (approx.) 8

FG-300

Air drain valve

Lower drain valve

254 mm (approx.) 312 — 670
kg (approx.) 17

AFG

DESCRIPTION		CODE
1" — FG-100 · MICROFILTER		
FG-100 · 5 µm (micron) · Water-repellent filtering paper	Diesel	39023
FG-100BIO · 25 µm (micron)	Diesel, Biodiesel	39024
FG-100G* · 5 µm (micron)	Diesel, Petrol	39071

- Transfer capacity: 105 l/min
- Inlet / Outlet: F1" BSP flanges or threads
- Capacity: 2 litres
- Top microfilter case: aluminium
- Vessel: *transparent plastic*
- Aluminium heading
- Manual drain valve
- Filtering capacity: 500,000 litres (under normal conditions)
- Operation pressure: 5 bar
- It is supplied with a special key for replacing the filtering element cartridge in a printed box.

**FG-100G - with Viton joints*

■ **Optional accessories:**

• KEY for replacing the filtering element cartridge	660705000
• Filtering element spare kit of 5 µm (micron) + joints	660708001
• Filtering element spare kit of 25 µm (micron) + joints	660708002
• F1" capping aluminium flange	800003032

1 1/2" — FG-150 · TRANSPARENT MICROFILTER	Diesel, Petrol, Biodiesel	
FG-150 · 5 µm (micron) · Water-repellent filtering paper		66050
FG-150BIO · 25 µm (micron)		66051
FG-150A · WATER ABSORBENT · 15 µm (micron)		66053

- Transfer capacity: 160 l/min
- Inlet / Outlet: F1 1/2" GAS (BSP)
- Capacity: 10 litres
- Filter cover: Aluminium casting
- Transparent vessel
- Vacuum gauge: -1 +3 bar
- Manual lower drain valve to empty the impurities
- Filtering capacity: 1 million of litres (under normal conditions)
- Operation pressure: 1 bar
- Automatic degasifier
- Installation: in the suction of the pumping kit

■ **Spares:**

• *Filtering element spare kit of 5 µm (micron) + joints*	*660508001*
• *Filtering element spare kit of 25 µm (micron) + joints*	*660508002*
• *Absorbent filtering element spare part kit of 15 µm (micron)*	*660508003*

2" — FG-300 · ALUMINIUM MICROFILTER	Diesel, Petrol, Biodiesel	
FG-300/50 · 50 µm (micron)		66191
FG-300/15 · WATER ABSORBENT · 15 µm (micron)		66192

- Flow: up to 300 l/min
- Inlet / Outlet: F2" BSP or flange
- Capacity: 15 litres
- Cover and body made of aluminium
- Differential manometer
- Water detector viewer
- Air drain valve
- Manual lower drain valve
- Operation pressure: 6 bar
- Installation: in the suction or delivery of the pumping kit

■ **Spares:**

• *Absorbent filtering element spare part kit of 15 µm (micron) + joints*	*661908000*
• *Impact filtering spare part kit of 50 µm (micron) + joints*	*661908001*

AFG · METALLIC CABINET FOR FILTER	57000

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DESCRIPTION	CODE
Diesel · Petrol · Biodiesel **FG-700 · Water absorbent aluminium microfilter · 15 µm**	66250
Optional with cartridge of 50 µm (micron) not absorbent (ideal for biodiesel)* Composed of 2 units FG-300 in parallel · Flow: **700 l/min · F3" flange	
Diesel · Petrol · Biodiesel **FG-1000 · Water absorbent aluminium microfilter · 15 µm**	66260
Optional with cartridge of 50 µm (micron) not absorbent (ideal for biodiesel)* Composed of 3 units FG-300 in parallel · Flow: **1,000 l/min · F4" flange	

TWO-PHASE FILTRATION

Filtering tank kits designed for the fuel filtering (diesel, petrol, kerosene and oil) of buried and aerial tanks, getting the microfiltered liquid free of impurities and water.

Diesel · Petrol · Biodiesel **FG-300x2 FIXED FILTERING KIT · 50 / 15 µm absorbent · 300 l/min**	66062
FG-300x2 MOBILE FILTERING KIT · 50 / 15 µm absorbent · 300 l/min	66061
FG-700x2 FIXED FILTERING KIT · 50 / 15 µm absorbent · 700 l/min	66290
FG-1000x2 FIXED FILTERING KIT · 50 / 15 µm absorbent · 1000 l/min	66310

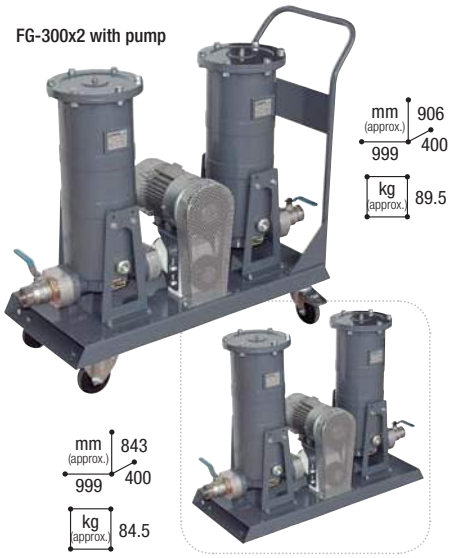
Composed of:
- 1 impact filtering element of 50 µm (micron)
- 1 final element of absorbent paper of 15 µm (micron)
- 1 fixed platform for the direct fixation to the ground or 1 mobile platform with 2 swivelling wheels and 2 fixed ones with an ergonomic handle
- 2 manual drain valves for the elimination of the residual air
- 2 differential manometers in order to see when to replace or clean the filter
- 2 outputs for the filtered liquid sampling
- 2 inlets for the air connection at pressure in order to make the filter cleaning without disassembling them

FG-300x2 300 l/min (50-15) **FG-700x2 700 l/min** (50-15, 50-15) **FG-1000x2 1,000 l/min** (50-15, 50-15, 50-15)

FIXED AND MOBILE FILTERING KITS WITH PUMP

Diesel · Petrol · Biodiesel **FG-300x2 MOBILE FILTERING KIT with BAG-800 TRIPHASE PUMP**	66152
FG-300x2 MOBILE FILTERING KIT with BAG-800 SINGLE-PHASE PUMP	66154
FG-300x2 FIXED FILTERING KIT with BAG-800 TRIPHASE PUMP	66153
FG-300x2 FIXED FILTERING KIT with BAG-800 SINGLE-PHASE PUMP	66155

Composed of:
- 1 Ø150x458 mm impact filtering spare of 50 µm (micron)
- 1 final water absorbent filtering element of 15 µm (micron)
- 1 fixed platform to be fixed directly to the ground or 1 mobile platform with two swivelling wheels and 2 fixed ones with an ergonomic handle
- 2 manual drain valves to eliminate the residual air
- 2 differential manometers
- 2 outputs to take samples of the filtering liquid
- 2 inlets for the air connection at pressure in order to make the filter cleaning without being disassembled
- BAG-800 1 kW 230/400 VAC or 230 VAC pump (refer to pump features in *page 26*)



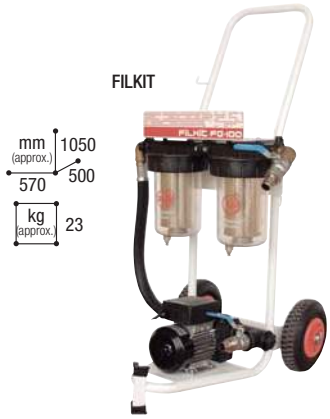
■ **Spares:**

• *Absorbent filtering element spare part kit of 15 µm (micron) + joints*	*661908000*
• *Impact filtering spare part kit of 50 µm (micron) + joints*	*661908001*

FILKIT · FG-100x2 + IRON-50 230 VAC · 25 / 5 µm	66270

Mobile filtering kit composed of:
- IRON-50 230 VAC · 50 l/min pump
- Cut-off valve
- Metallic trolley with high stability soft wheels
- FG-100BIO · 25 µm (micron) + FG-100 · 5 µm (micron) microfilters
- Support to pick up the hose and hang the nozzle
- FUP-1 filter

■ **Optional: FILKIT hose kit** — 662708000
Composed of: 6 m suction hose and 4 m delivery hose + PSF-040 nozzle + foot valve with filter



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22 FUEL MICROFILTERS

York base filter

Check valve + York base filter

Aluminium vessel filter

Multivalent vessel filter

FUP-1 filter

Self-cleaning lower filter

Transparent vessel filter

"Y" brass filter

DESCRIPTION	with filter	without filter	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
CHECK VALVE WITH OR 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	
ALUMINIUM VESSEL FILTER · 5 bar FF1/2"			802702001
1" MULTIVALENT VESSEL FILTER			802704003
FUP-1 FF1" FILTER (POLYAMIDE + FIBREGLASS) OF 350 µm (micron)			66030
SELF-CLEANING LOWER FILTER			66020
FF3/8" TRANSPARENT VESSEL FILTER			802705001
"Y" BRASS FILTERS			
• 1/2" "Y" brass filter			802701006
• 3/4" "Y" brass filter			802701004
• 1" "Y" brass filter			802701003
• 1 1/4" "Y" brass filter			802701002

23 «BREAKAWAY» FIREPROOF VALVES

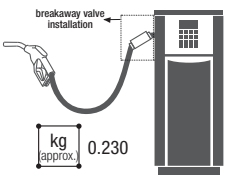
3/4"

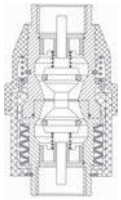
kg (approx.) 0.230

1"

kg (approx.) 0.320

Reconnectable 3/4"





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 spillage and protecting the supply kit.

802 «BREAKAWAY» VALVE · BSP 3/4"xBSP 3/4" · 0-60 l/min	805604016
804 «BREAKAWAY» VALVE · BSP 1"xBSP 1" · 0-120 l/min	805604015

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

The valve is designed to be replaced after de separation.

3/4" «BREAKAWAY» RECONNECTION VALVE · BSP 3/4" · 0-60 l/min	805604019
PA-80 · F1" · **«BREAKAWAY» SWIVELLING VALVE**	805604026

RECONNECTABLE

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

WARNING: IT IS ADVISABLE TO REPLACE IT BY A NEW RECONNECTABLE BREAKAWAY VALVE WITH THE EFFORT FORCE LOWER THAN 80 kg, AFTER MANY RECONNECTIONS.

FF1 1/2" «BREAKAWAY» VALVE FOR SUPPLY KITS WITH SUBMERSIBLE PUMP	805603010

- 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.

mm (approx.) 170 115 120

kg (approx.) 3

Materials:
- Material: cast iron
- Joints: Buna-N

Technical data:
- Flow: 0-120 l/min
- Working pressure: 2 bar

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DESCRIPTION	CODE

MANUAL NOZZLES

PT-60 · MANUAL NOZZLE (60 litres) — 47010

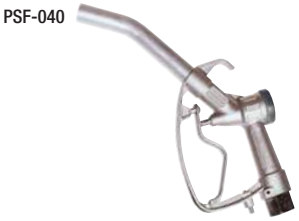
- Flow: 60 l/min
- Connection: F3/4"
- Made of polyamide 6 -15 % Fibreglass
- Maximum pressure: *2 bar*
- NBR joint

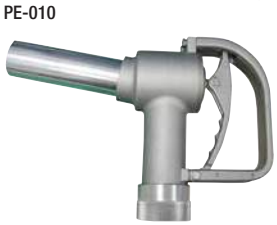
PSF-040 · MANUAL NOZZLE (80 litres) — 47030

- Flow: 80 l/min
- Connection: F1" rotary swivel
- Made of aluminium
- Maximum pressure: *3 bar*
- Trigger fixation
- Curved aluminium end

PE-010 · MANUAL NOZZLE (300 litres) — 47061G

- Flow: 300 l/min
- Connection: F1 1/2"
- Made of aluminium
- Maximum pressure: *3 bar*
- Trigger fixation





AUTOMATIC NOZZLES

PA-60UPP + swivel · AUTOMATIC NOZZLE FOR ADBLUE/DEF (45 litres) — *47292*

- *Materials of construction: PP, stainless steel, Viton*
- *Flow: 12-45 l/min*
- *Inlet connection: BSPP1"*
- *Automatic nozzle with safety cut out valve*
- *Maximum pressure: 4 bar*

PA-60 · AUTOMATIC NOZZLE (60 litres) — 47200G

Aluminium body for **diesel** with plastic cover, ergonomic design, 3-position progressive flow regulation with automatic cut.

- Flow: 60 l/min
- Connection: F3/4"
- Trigger fixation
- *Maximum pressure: 4 bar*

PA-80 · AUTOMATIC NOZZLE FOR DIESEL — 47210G
PA-80 · 3/4" · AUTOMATIC NOZZLE FOR UNLEADED PETROL — 47251
PA-80 · 1" · AUTOMATIC NOZZLE FOR UNLEADED PETROL — 47254
(80 litres)

Aluminium body with plastic case (**black** for ***diesel***, green for unleaded petrol), ergonomic design, regulation with maximum one position and progressive flow with automatic cut.

- Flow: 80 l/min
- Connection: F1" swivel (**diesel**) - **black nozzle**
- Connection: F3/4" or 1" swivel (unleaded petrol) - green nozzle
- Trigger fixation
- *Maximum pressure: 4 bar*

PA-120 · AUTOMATIC NOZZLE (120 litres) — 47220G

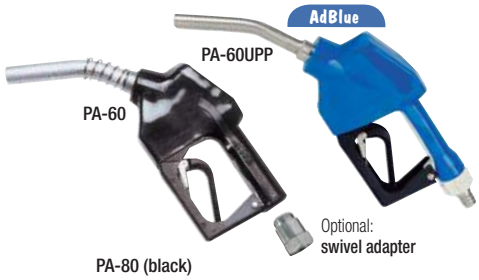
- Flow: 120 l/min
- Connection: F1" swivel
- Trigger fixation
- *Maximum pressure: 4 bar*

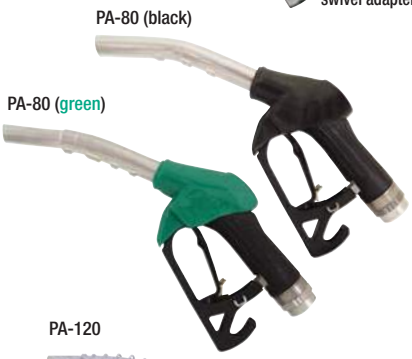
PA-140 · AUTOMATIC NOZZLE (140 litres) — 47230G

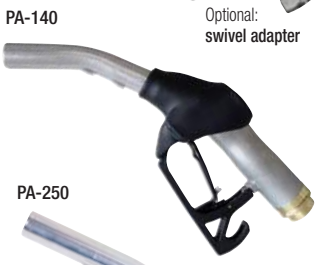
- Flow: 140 l/min
- Connection: F1" swivel
- Trigger fixation
- *Maximum pressure: 4 bar*

PA-250 · AUTOMATIC NOZZLE (250 litres) — 47240

- Flow: 200 l/min
- Connection: M1 1/2" swivel
- Trigger fixation
- *Maximum pressure: 4 bar*







■ **Optional accessories:**

• MF3/4" rotary swivel	804503007
• MF1" rotary swivel	804503001
• M3/4" F1" rotary swivel	804503002

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Suction/Delivery hoses

Detail of the hose end with adapter

Suction kit with anti-siphon valve

DESCRIPTION	CODE

SUCTION & DELIVERY HOSES

ANTISTATIC DOUBLE LAYER HOSES (m)

Diesel	
• **Ø19 mm hose special for diesel**	803401105
• **Ø25 mm hose special for diesel**	803401001
• **Ø30 mm hose special for diesel**	803403003
■ **Optional:** - To put adapters in both ends	670001007
Petrol	
• **Ø16 mm hose special for unleaded petrol (green) · EN1360**	803403005
• **Ø19 mm hose special for petrol · EN1360**	803401011
• **Ø25 mm hose special for petrol · EN1360**	803401007
• **Ø40 mm hose special for diesel/petrol**	803401010
■ **Optional:** - Ø16 mm M3/4" reconnectable adapter	472102012
- Ø16 mm M1" reconnectable adapter	472102013
- Ø19 mm M3/4" reconnectable adapter	472102014
- Ø19 mm M1" reconnectable adapter	472102015
- Ø25 mm M1" reconnectable adapter	472102016

SPRINGWEL BLACK SUCTION HOSES (m)

• **Ø25 mm Springwel black suction hose**	803400010
• **Ø30 mm Springwel black suction hose**	803400011
• **Ø40 mm Springwel black suction hose**	803400012

SPRINGWEL TRANSPARENT SUCTION HOSES (m)

• **Ø20 mm Springwel transparent suction hose**	803400005
• **Ø25 mm Springwel transparent suction hose**	803400001
• **Ø30 mm Springwel transparent suction hose**	803400003
• **Ø40 mm Springwel transparent suction hose**	803400002

TELESCOPIC TUBE KITS

• **PP M3/4" F1" telescopic tube with filter · height 0.98 m**	35660
• **PP M3/4" F1" telescopic tube with filter · height 1.30 m**	35730
• **PP M3/4" F1" telescopic tube with filter · height 1.90 m**	35800
• **PP M1" F1 1/4" telescopic tube with filter · height 0.98 m**	35630
• **PP M1" F1 1/4" telescopic tube with filter · height 1.30 m**	35740
• **PP M1" F1 1/4" telescopic tube with filter · height 1.90 m**	35790
• **PP M1" F1 1/4" telescopic tube with valve and filter · height 0.98 m**	35850
• **PP M1" F1 1/4" telescopic tube with valve and filter · height 1.90 m**	35840

METALLIC TUBE SUCTION KIT WITH CHECK VALVE WITH FILTER + 3 m SUCTION HOSE

• **Suction kit with check valve and 1" filter · height 1.35 m**	35560
• **Suction kit with check valve and 1" filter · height 1.65 m**	35550
• **Suction kit with check valve and 1" filter · height 1.90 m**	35570
• **Suction kit with check valve and 1 1/4" filter · height 1.65 m**	35520
• **Suction kit with check valve and 1 1/4" filter · height 1.90 m**	35530
• **Suction kit with check valve and 1" filter, ball valve and anti-siphon valve · height 1.65 m**	35552
• **Suction kit with check valve and 1" filter, ball valve and anti-siphon valve · height 1.90 m**	35572
• **Suction kit with check valve and 1 1/4" filter, ball valve and anti-siphon valve · height 1.65 m**	35522
• **Suction kit with check valve and 1 1/4" filter, ball valve and anti-siphon valve · height 1.90 m**	35532

GRAVITY TANK KIT composed of: **MF1" ball valve, FUP-1 FF1" filter, 5 m Ø25 mm delivery hose and PSF-040 manual nozzle with rotary swivel**	35620

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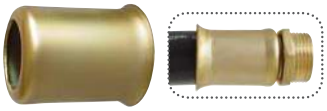
DESCRIPTION	CODE

26.1 ADAPTERS AND FERRULES

PP M3/4"x25 mm PLASTIC ADAPTER	804501002
PP M1"x25 mm PLASTIC ADAPTER	804501001
28x41.5 mm FERRULE	801200011
37x51 mm FERRULE	801200012
M3/4"x19 mm BRASS ADAPTER	804500012
M1"x19 mm BRASS ADAPTER	804500021
M1"x25 mm BRASS ADAPTER	804500001

Plastic adapter

Ferrule



Brass adapter

26.2 FLANGES

M1" COMPLETE LONG UNION FLANGE KIT	800003027

Special plastic flange made of PA+Fibreglass in order to adapt the mechanical meters to the pumps and/or pipes.

It is optionally supplied with a filter-sieve of 350 µm (micron) made of stainless steel in order to avoid the inlet of impurities into the meter.

■ Optional:

• STAINLESS filter-sieve of 350 µm (micron) Ø33 mm (flange inner) — 460000003

Union flange

Union flange with sieve filter

F1" COMPLETE ALUMINIUM FLANGE KIT *with DIN.912 ALLEN screw*	800003022

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

Aluminium flange kit

90º flange kit

90º ELBOW KIT WITH ALUMINIUM FLANGE AND THREAD	800003041

Special aluminium flange kit (90º) for the quick coupling of the pump and/or pipe to any type of installation with joints and screws.

26.3 NOZZLE HANGERS

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	280403001
PA NOZZLE HANGER + MICRO-SWITCH	280403101
PA NOZZLE HANGER + EEXE MICRO-SWITCH	280403201

Nozzle hanger with and without micro-switch

26.4 PEDESTAL BASES

1 m hexagonal pedestal base made of sheet for the own consumption controllers and the supply kits.

PEDESTAL BASE for GK-7	800400013
PEDESTAL BASE for COMPACT MECHANICAL supply kit	800400014
PEDESTAL BASE for COMPACT supply kit with GK-7	800400015

Pedestal base

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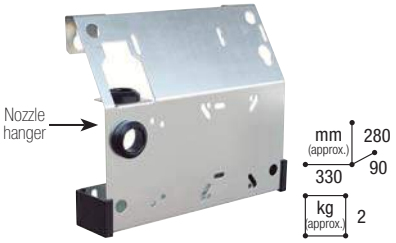
Universal support



Base no. 3

Base no. 4

Polythene tank platform

AS-1

AS-2

AS-3

AS-5

AS-5P

mm (approx.) 585 330 620

*It does not include the nozzle.

DESCRIPTION	CODE
UNIVERSAL SUPPORT	800404259

Zinc-plated sheet support to fix the pumping kits in the polythene tanks of 1,000 litres "with metallic framework" and the steel double wall tanks.
It can also be fixed on the wall.
It has a nozzle hanger with rubber protection and drip pan.

BASES FOR THE SUPPLY KITS

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

Model	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	
■ BASE no. 3	320	260	527	6	800400001
■ BASE no. 4	*392*	300	325	6	800400011

POLYTHENE TANK PLATFORM — 800400002

Sheet platform to install the pumping kits on the tanks. Finish in brilliant epoxy paint.

AS · CABINETS FOR EXTERNAL USE

- Made of 1.5 mm sheet
- Opening under the door to pass the hose
- Key locking
- Finish in brilliant epoxy paint

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-5B	620	300	580	55000

AS-5P · CABINET FOR EXTERNAL USE WITH NOZZLE HANGER — 55070
AS-5P · CABINET FOR EXTERNAL USE WITH NOZZLE HANGER + MICRO-SWITCH — 55080

- Made of 1.5 mm sheet
- 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.

The cabinets have the capacity to have installed indoors the FG-100 microfilter, the pumps and meters from 100-200 l/min in different positions.

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DESCRIPTION	CODE

ANGLE CHECK VALVES

The angle check valves are installed in the suction tube, in the top of the buried storage tanks.

• ***1½" Angle check valve · M2" or F1½" INLET · F1½" OUTLET***	805603011
• **2" Angle check valve**	805605002

1½" Angle check valve

kg (aprox.) 1.6

2" Angle check valve

kg (aprox.) 3.89

ADJUSTABLE ANTI-SIPHON VALVES

- Anti-siphon valve with adjustable security system for tanks with different diameters in order 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 the suction tube is not unprimed.
- Its installation is obligated for all the aerial tanks according to the "Reglamento de Instalaciones Petrolíferas" (Spanish Petroleum Installation Regulation) and "la Instrucción Técnica Complementaria MI-IP04" (Spanish Technical Complementary Instruction).

• **1" adjustable anti-siphon valve**	805604010
• **1 1/4" adjustable anti-siphon valve**	805604011
• **1 1/2" adjustable anti-siphon valve**	805604028
• **2" adjustable anti-siphon valve**	805604013

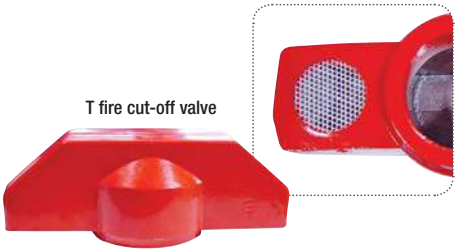
Anti-siphon valve

1" fire cut-off valve

FIRE CUTOFF VALVES

• **1" fire cutoff valve**	801900005
• **T 2" fire cutoff valve**	801900004

T fire cut-off valve



CHARGING HOLES

• **F2" charging hole**	800600001
• **F3" charging hole**	800600002
• **M3" charging hole plug**	800602001

Charging hole

ACOUSTIC OVERFILL 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.

Acoustic overfil alarm

F2" OVERFILL VALVE

801904014

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

F4" overfill valve

F2" overfill valve

Special overfill valve key

F4" OVERFILL VALVE

801904013

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

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DESCRIPTION | CODE

SINGLE-SKINNED POLYTHENE TANKS

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

Model	Nominal capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Weight approx. (kg)	CODE
500	500	1,125	650	963	22	38650
700	700	1,125	650	1,330	29	38670
1000E	1,000	1,125	650	1,920	40	38680
1000	1,000	1,670	740	1,200	40	38590
1500	1,500	1,670	740	1,800	65	38600
2000	2,000	1,670	880	1,850	74	38610
3000*	3,000	2,230	995	1,610	165	38750

With metallic supports

INTEGRALLY-BUNDED POLYTHENE TANKS

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

Model	Nominal capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Weight approx. (kg)	CODE	
750	750	780	780	1,710	44	38741	DISCONTINUED
1000E	1,000	810	810	1,990	56	38761	DISCONTINUED
1100	1,100	1,580	790	1,360	56	38631	
1500	1,500	1,580	790	1,720	69	38641	
2000	2,000	1,840	1,000	1,902	180	38731	

SPILL TRAYS

- Leak-tight containers for the fuel retention stored in the tank in the event of any leak
- It is suitable for tanks of 1,000 litres or lower.
- Made of 0.8 mm galvanised steel sheet.
- «*The storages with capacity not higher than 1,000 litres of Class C product (diesel) do not need retention container. They must have a spill tray with capacity, at least, the 10 per 100 of the tank.*» (Spanish "Real Decreto 1523/99")

Model	Length (mm)	Width (mm)	Height (mm)	Weight approx. (kg)	Compatibility	CODE
Tray A	1,680	750	160	12	*	385905015
Tray B	1,220	690	160	10		385905016
Tray C	810	810	160	8.50		385905017

The compatibility of the trays depends on the tank manufacturer.

PRICES OF THE TANKS UNDER QUOTE

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION	CODE
APPROVED SUPPLY KIT FOR TANKS S-50 230 V KIT + BASE no. 4 + NOZZLE + ANTI-SIPHON VALVE + VENT VALVE	34170-CF00000

- Self-suction pump of 230 VAC · 50 l/min
- MG-80 mechanical meter. 3-digit partial indicator and 6-digit totalizer. Connection: 1" GAS (BSP) with 3 inlets and 2 outlets. Manual reset
- Metallic base no. 4 for polythene tank where to put the pump, the fire-estinguisher, the electric frame with differential and magnetothermal
- 4 m Ø3/4" delivery diesel hose with 1" adapters in both ends
- PA-60 · Automatic nozzle with swivel
- 1" ball valve in the suction
- 1" suction steel tube with dismounting union of 3 pieces (pump inlet)
- 1" anti-siphon valve with adjustable security system for tanks of different diameter
- 1" suction steel tube of 1.90 m with 1" York filter (tank inner)
- 2 m vent tube with 1" fire cut-off valve
- 2 x 2" bung adapters for the direct connection of the pipes

*Tank not included

■ **Optional:**

- Integrally-bunded polythene tank of capacity 1,500 or 2,000 litres.

LEVEL INDICATORS 30

1 1/2" LEVEL INDICATOR — 801901001

- Tank fuel height gauge.
- It is suitable for aerial tanks with a maximum diameter of 2 metres (15,000 litres).
- This indicator has a float that is put into the tank. This float is joined to the clock through a thread.
- Easy and quick reading through the clock, expressed in centimetres
- M 1 1/2" thread

Level indicator

WA · LEVEL ALARM — 808316013

- The transmitter is fitted on the top of the tank and uses ultrasonic level measurement techniques, constantly measuring the level of fuel in the tank.
- It transmits the information to the receiver which is plugged into an electric wall socket, located in a convenient place in the house.
- The height of the liquid is displayed in the LCD screen of the receiver. The householder can monitor the level of the fuel in their tank from their home.
- When the level of fuel in the tank gets below 10 %, the fuel dispensing pump symbol appears, and, optionally, a buzzing tone, indicating to the householder that it is time to order some more fuel.
- In case the fuel level in the tank drops at a rate that is not common for a domestic fuel tank (more than 3 cm in a minute), the receiver will emit a siren type sound, indicating a theft / leak is occurring.

- Liquid level visualization
- Quick and easy installation
- It is suitable for steel or plastic tanks (minimum width: 600 mm)
- Low energy consumption
- 200 metres from the transmitter to the receiver
- It measures tanks up to 3 metres of height.
- Option of an audible setting sending out a buzzing tone when fuel levels run low.

Indicator - alarm

GENIUS · LEVEL INDICATOR *(refer to page 50-52)*

GENIUS

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

29 STORAGE TANKS

FM3000

FM5000

FM9000

included
discharge hole

DESCRIPTION | CODE

FUELTANK · STORAGE AND SUPPLY TANKS

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

**10-year warranty*

Standard equipment:

- Distribution closet with locking
- Oil level gauge (Oil Watchman Plus) with the spill detector built in
- Maximum level detector that works with the filling system
- Automatic shutoff valve with 6 m flexible hose
- 16" lid in the internal tank
- 2" filling nozzle
- Hermetic lid in the internal tank (Ø140 mm)
- Air drain valve in the internal tank.

Model	Capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Weight approx. (kg)	CODE
■ FM3000	3,500	2,850	2,200	1,960	268	38411
■ FM5000	5,000	*2,850*	2,230	2,340	307	38412
■ FM9000	9,000	*3,280*	2,480	2,950	565	38403

Accessories

- 1" adjustable anti-siphon valve (50 l/min) — 805604010
- 1 1/4" adjustable anti-siphon valve (80 l/min) — 805604011

FUELTANK SLIM-4000 · 4,000-litre capacity — 38413

Resistant to corrosion and UV radiation
The door opened to the right or the left.
Lockable housing protects the dispensing equipment against unauthorized access.
The tank can be easily transported by a forklift truck.
Raised roof enables easy access to the tank inner.
**10-year warranty*

Composed of:

- 2" filling line
- Self-suction pipe with 1" suction line with filter and anti-return valve
- Support for keeping the nozzle in its correct position
- Lockable door for the supply kit and inspection lid in the tank top.
- 8" inspection hatch on the tank inner

29.1 SUPPLY KITS FOR TANKS

COMPACT + AS-2

SE-50 230 VAC COMPLETE KIT + metallic base no. 4 without suction tube	16030-CF00000
SE-75 230 VAC COMPLETE KIT + metallic base no. 4 without suction tube	16031-CF00000
COMPACT 50E-230 in AS-2	28053-CF00000
COMPACT 75E-230 in AS-2	28291-CF00000

**Refer to features and optionals in page 36*

COMPACT 50K-60 230 (60 users) in AS-2	28540-CF00003
COMPACT 75K-60 230 (60 users) in AS-2	28640-CF00003

**Refer to features and optionals in page 47*

■ **Optional:**

- FG-100 transparent microfilter · 2-litre capacity · Microfiltering of 5 µm (micron) — 39023
- GENIUS level indicator — 25730

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION	CODE

- Compact petrol installation for the diesel storage and supply to vehicles (own consumption), 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)

DOUBLE WALL KIT-3000 without pumping kit

DOUBLE WALL KIT-5000 without pumping kit

DOUBLE WALL KIT-10000 without pumping kit

DOUBLE WALL KIT-15000 without pumping kit

Composed of:

1. Double wall tank

- Double wall steel tank of horizontal cylindrical shaft for its aerial installation, manufactured under UNE rules:
  UNE 62351-2 capacity up to 3,000 litres
  UNE 62350-2 capacity higher than 3,000 litres
- Equipped with: welded support structure, manifold in manhole and vacuum leak system. External non-corrosive finish, white polyurethane with special outdoors bright.
- 400 mm vent valve set
- 2" T valve or fireproof valve with built-in grid
- 1" suction set
- Vk-80 3" brass charging hole with chain in the cover
- Measuring system: level indicator with guide tube or slide
- Overfill alarm
- Pressure relief valve
- *1" adjustable anti-siphon valve*

2. Crash-proof frame

- Metallic structure that protects the tank against crashes; it has a stair to access the manhole with a non-slip flat and a security rail (in tanks higher than 3,000 litres)
- Extinguisher
- Nozzle hanger

■ **Optional:**

- *Mechanical or electronic COMPACT Supply kits for the diesel supply and measurement and possibility of the GK-7 fleet controller installation*
- *There is the option of fitting additional elements or modifying those that already has under the customer's request in order to be used for an specific use whenever it complies with the applicable regulations.*
- *Installation of other pumping kits of different flows (e.g. 50/80/150 l/min), more or less number of delivery hose metres, different types of nozzles and filtering elements*
- *FG-100 · Transparent microfilter · 2-litre capacity · Microfiltration of 5 µm (micron)*
- *4" overfill valve from the KIT-5000 litres*

KIT-3000

KIT-5000

KIT-10000

KIT-15000

METALLIC TANKS

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
- 500 mm manhole. Hermetic seal.
- They usually have two handles for its handling and raising.

SIMPLE AND DOUBLE WALL TANK CAPACITIES:
From 1,000 to 50,000 litres

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31 GRG · ROAD TRANSPORT TANKS

CYLINDRICAL GRG *(*ask for it)*

RECTANGULAR GRG

* Supply kit not included

BASIC TRAILER (dim. AxB approx.)
up to 500 litres · *1,650x1,150 mm*
up to 1,000 litres · *2,500x1,300 mm*

* Supply kit not included

CASED TRAILER (dim. AxBxC approx.)
FUEL up to 500 litres · 1,650x1,150x1,050 mm
FUEL BOX up to 500 litres · 2,100x1,330x1,100 mm
SPECIAL FUEL BOX up to 1,000 litres · 2,500x1,300x1,200 mm

DESCRIPTION	CODE

GRG STEEL TANKS

- Autonomous fuel transport units specially suitable for the fuel transport of heavy and agricultural machinery, excavations, ... These are also suitable to be installed in vans, "pickup", trucks, etc.
- They have built in the fire extinguisher, the venting valve and the 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 Epoxy paint, with inner "bulwark" and security valve.

** Supply kit customisation according to the customer's needs*

RECTANGULAR

Model	Capacity (litres)	Dim. AxBxC approx. (mm)	Weight (approx.) (*kg*)	CODE
GRG 190	190	900x395x750	55	35220
GRG 320	320	1,000x600x750	69	35130
GRG 500	500	1,000x600x1,000	106	35110
GRG 980	980	1,250x1,000x950	153.5	35120

**Ask for the CYLINDRICAL GRG*

BASIC TRAILER · up to 500 litres · with brake — 35290
BASIC TRAILER · up to 1,000 litres · with brake — 35430

- Galvanized trailers, with lateral protection rail, big wheels and "jockey" move wheel, with brake.
- It can be towed to any type of vehicle. It does not need registration. They are exempt from taxes. Without periodical service of "MOT" (vehicle inspection).

** Supply kit customisation according to the customer's needs*

CASED

FUEL TRAILER · up to 500 litres — 35300
FUEL BOX TRAILER · up to 500 litres — 35310

SPECIAL FUEL BOX TRAILER · up to 1,000 litres — 35311

WITH BRAKE AND TOP TRAP DOOR

- Cased trailer with one or two tip-up hydraulic doors and security lock, totally galvanized, *with brake and top trap door* and enough charge space for oils, greasers, tools, accessories... big wheels and "jockey" move wheel.
- These trailers needs to be registered and an own insurance.

** Supply kit customisation according to the customer's needs*

31.1 GRG SUPPLY KITS

IRON-50 12 V + PSF-040 · GRG KIT — 11800-CF00000

Composed of: IRON-50 12 VDC pump with 4 m electrical cable · PSF-040 manual nozzle · 4 m Ø3/4" hose

IRON-50 12 V + PA-60 · GRG KIT — 11800-CF00001

Composed of: IRON-50 12 VDC pump with 4 m electrical cable · PA-60 automatic nozzle with swivel · 4 m Ø3/4" hose

SE-50 12 V + PSF-040 · GRG KIT — 11810-CF00000

Composed of: IRON-50 12 VDC pump with 4 m electrical cable · MGE-110 electronic meter · PSF-040 manual nozzle · 4 m Ø3/4" hose

SE-50 12 V + PA-60 · GRG KIT — 11810-CF00001

Composed of: IRON-50 12 VDC pump with 4 m electrical cable · MGE-110 electronic meter · PA-60 automatic nozzle with swivel · 4 m Ø3/4" hose

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DESCRIPTION | CODE

TruckTank · Polythene GRG

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

**5-year warranty*

It includes:
- Lid with key
- 4 metallic shackles to lift it with security (optional for the tanks of 200 litres)
- Internal light (optional for the tanks of 200 litres)
- Level indicator (only for the tanks of 420 and 900 litres)
- Suction tube with filter
- Air drain valve with a design that allows avoiding the fuel spillage during the transport
- Bushing with M2" connector
- Closing valve

■ **Optional:**
SUPPLY KIT composed of:
- Self-suction pump of 12 VDC · 40 l/min
- 4 m Ø3/4" hose
- Manual or automatic nozzle
- With or without high accuracy electronic meter · ±0.5 %

GRG inner with supply kit

Model	Capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Weight (approx.) (kg)	
■ FT200	200	1,180	860	500	31	38422
■ FT420	420	1,180	860	910	44.5	38420
■ FT900	900	1,410	1,050	1210	80	38421

TRUCKTANK SUPPLY KITS 31.1

IRON-50 12 V + PSF-040 · GRG TRUCKTANK KIT — 11820-CF00000

Composed of: IRON-50 12 VDC pump with 4 m electrical cable · PSF-040 manual nozzle · 4 m Ø3/4" hose

IRON-50 12 V + PA-60 · GRG TRUCKTANK KIT — 11820-CF00001

Composed of: IRON-50 12 VDC pump with 4 m electrical cable · PA-60 automatic nozzle with swivel · 4 m Ø3/4" hose

SE-50 12 V + PSF-040 · GRG TRUCKTANK KIT — 11830-CF00000

Composed of: IRON-50 12 VDC pump with 4 m electrical cable · MGE-110 electronic meter · PSF-040 manual nozzle · 4 m Ø3/4" hose

SE-50 12 V + PA-60 · GRG TRUCKTANK KIT — 11830-CF00001

Composed of: IRON-50 12 VDC pump with 4 m electrical cable · MGE-110 electronic meter · PA-60 automatic nozzle with swivel · 4 m Ø3/4" hose

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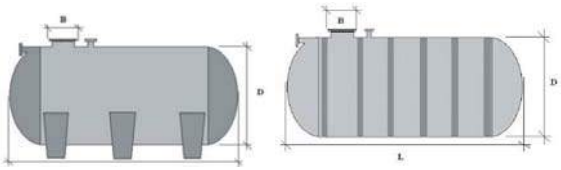
32 WATER AND ADBLUE/DEF TANKS

NARROW TANKS

MODULAR TANKS

RECTANGULAR TANK

CYLINDRICAL POLYESTER TANKS



DESCRIPTION | CODE

DRINKING WATER AND ADBLUE/DEF TANKS

- Made of opaque polythene of high density (PEAD) and high molecular weight through blowing extrusion. They comply with the requirements of the Spanish law in order to be in touch with the food products, drinking water and AdBlue/DEF.
- High tank opacity, avoiding the alga formation
- All the models are composed of three threaded top registers: charge, ventilation (72 mm) and cleaning (400 mm).
- They are suitable for the installation of any type of accessory.

MODULAR

- Square format suitable for reduced and/or narrow spaces

Model	Nominal capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Register (mm)	CODE
■ AM750	750	750	720	1,700	200	38940
■ AM1000	1,000	780	780	1,980	200	38151

NARROW

- They are suitable for narrow doors of 70 cm.

Model	Nominal capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Register (mm)	CODE
■ A700	700	1,105	660	1,395	400/72	38941
■ A1200	1,200	1,060	660	1,813	400/72	38152

RECTANGULAR

- They are suitable for fire-prevention installations.

Model	Nominal capacity (litres)	Length (mm)	Width (mm)	Height (mm)	Register (mm)	CODE
■ AB1000	1,000	1,670	740	1,200	400/72	38153
■ AB1500	1,500	1,670	740	1,800	400/72	38950
■ AB2000	2,000	1,670	880	1,850	400/72	*38141*
■ AB3000	3,000	2,230	995	1,650	400/72	38180
■ AB4000	4,000	2,430	995	1,950	400/72	38960

CYLINDRICAL POLYESTER TANKS FOR WATER

- Aerial or buried tanks
- Capacities from 6,000 to 40,000 litres
- Composed of: 1 manhole, 2 flanges and 1 DN50 flange holder

33 CONTAINERS

4" spill container with steel cover

4" spill container with fibre cover

Container inner

MANHOLE CONTAINER
PLUS MANHOLE CONTAINER

808313003
808313006

- This fuel tank chest allows installing pumps, valves and other type of equipment required for the connection of the tank with the supply kit.
- It is composed of two pieces: base and neck, joined with a ring, assuring its total sealing.
- Material: polyethylene
- Optionally it has flexible wall glands to make easier the piping.

4" SPILL CONTAINER WITH Ø360 mm STEEL COVER
4" SPILL CONTAINER WITH Ø410 mm STEEL COVER
4" SPILL CONTAINER WITH Ø360 mm FIBRE COVER

808313004
808313005
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 the ground water pollution.
- Easy installation. Its flexible structure allows a good adaptation in all type of land.
- It allows draining the container product to 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 fibre
- Brackets: Stainless steel
- Seals: Buna-N

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION CODE

HYDROCARBON SEPARATORS

HYDROCARBON SEPARATORS 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 significant zones (rivers, lakes, seas, etc.) or when the local regulation ask for some results higher than it is usual. These separators comply with the EN858 European Regulation, 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

Model	Flow (l/s)	Weight (kg)	Height (mm)	Diameter (mm)	Decanter volume (L)	Separator volume (L)	
■ **SHDOC2-1-03**	3	130	1,170	1,600	656	380	801905003
■ **SHDOC2-1-06**	6	225	1,500	1,930	1,275	500	801905004
■ **SHDOC2-1-08**	8	245	1,780	1,930	1,730	700	801905005
■ **SHDOC2-1-10**	10	305	1,580	2,400	2,010	1,030	801905006
■ **SHDOC2-1-15**	15	340	1,930	2,400	3,020	1,030	801905007

Model	Flow (l/s)	Weight (kg)	Height (mm)	Width (mm)	Length (mm)	
■ **SH2/6643/01**	1	67	970	760	1,190	801905018
■ **SH2/6643/03**	3	87	1,280	760	1,320	801905019
■ **SH2/6643/06**	6	145	1,580	850	1,910	801905020
■ **SH2/6643/08**	8	205	1,630	940	2,160	801905021
■ **SH2/6643/10**	10	238	1,630	940	2,400	801905022
■ **SH2/6643/15**	15	358	1,900	1,540	2,340	801905023

DECANTERS / SAND TRAPS

Model	Weight (kg)	Height (mm)	Diameter (mm)	Volume (L)	
■ **DB2/1000**	33	1,360	1,160	1,000	801905009
■ **DB2/1500**	52	1,220	1,550	1,500	801905010
■ **DB2/2000**	62	1,500	1,550	2,000	801905011
■ **DB2/3000**	99	1,500	1,930	3,000	801905012
■ **DB2/4000**	129	1,840	1,930	4,000	801905013
■ **DB2/5000**	149	2,180	1,930	5,000	801905014
■ **DB2/6000**	180	1,880	2,400	6,000	801905015
■ **DB2/8000**	340	2,450	2,400	8,000	801905016
■ **DB2/10000**	350	2,910	2,400	10,000	801905017

SAMPLE CONTAINER

808313002

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

Sample container

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

LG-84

mm (approx.) 865 × 475 × 520

kg (approx.) 42.5

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 aerial 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, as well as the vehicle tanks with a wrong fuel or with more litres than those desired.

LG-84 · ELECTRIC EXTRACTOR-DECONTAMINATOR — Diesel — 48000

Technical data:
- Motor: 0.25 kW with IP-55 protection
- Voltage: 230 VAC
- Consumption: 1.2-2 A
- Pressure / Depression: +0.9/-0.7 bar
- Flow: 35 l/min
- 3,000 rpm
- Maximum vessel capacity: 60 litres
- Maximum admissible capacity: 50 litres
- Suitable for diesel

Equipped with:
Vacuum gauge -1 +3 bar · FF3/4" ball valve · level buoy (overfill security) · 5.5 m transparent hose with 1/2" metallic galvanised lance · 0.75 m M3/4" complete drain probe · 1.5 m Ø12x9 mm tank extraction tube · 1.5 m Ø8x6 mm tank extraction tube · stainless grid · breakaway valve · chassis with a handle and back wheels

**IT IS NOT SUITABLE FOR PETROL OR EXPLOSIVE LIQUIDS OR IN ENVIRONMENTS WHERE IT IS REQUIRED AN EXPLOSIONPROOF KIT.*

LGN-97

mm (approx.) 1,230 × 530 × 500

kg (approx.) 52

LGN-97 · PNEUMATIC EXTRACTOR — Diesel Petrol — 48030

- It allows a tank retention in vacuum to suction 50 litres, with a suction capacity of 6 m.
- In its bottom there is a drain valve (ball valve) to empty and analyse the liquid.
- Pneumatic extractor with 2-extraction positions per probe
- It also allows the emptying / pressure conservation in its inner in order to suction/empty where there is no air intake.
- It is suitable for diesel and petrol.

Technical data:
- Extraction system based on the depression creation in the tank inner (Ventury system) (-0.8 bar)
- Emptying system at pressure (+0.9 bar)
- Sealed security valve, tared at +1.5 bar
- Sealed valve that regulates the air inlet, tared at 0.9 bar
- It has an air hose connection.
- Minimum pressure: 6 bar
- *Required air pressure of 200 l/min at 6 bar or suctioned flow of 400 l/min*

Equipped with:
Vacuum gauge -1 +3 bar · level indicator · Tank for the extracted fuel · Transparent vessel · 5.5 m transparent hose with 1/2" metallic galvanised lance · 0.75 m M3/4" complete drain probe · 1.5 m Ø12x9 mm tank extraction tube · 1.5 m Ø8x6 mm tank extraction tube · chassis with a handle and back wheels

The LGN-97 pneumatic Extractor-decontaminator complies with the rules of kits at pressure, "Real Decreto" 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.

■ **Optional:**

• Water paste · water level indicator	807613001
• 5.5 m transparent hose + 1 m metallic galvanised lance	480006002
• 2 x Ø12x9 mm and 8x6 mm tank extraction tube of 1.5 m	480006001
• 0.75 m M3/4" complete drain probe	480006003
• Air output tube adapter (service station)	480105010

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION	CODE
Diesel Petrol **LGN-200 · PNEUMATIC MULTI-USE EXTRACTOR-DECONTAMINATOR**	48020

- It is designed for the fuel extraction, storage, filtering and also its supply, specially suitable for "RENT A CAR".
- First it suctions the vehicle fuel, then it is filtered and it can be supplied from the same kit with the supply nozzle and the electronic meter.
- The liquid transfer is controlled through the electronic meter or through the lower valve but without metering it.
- It allows the vacuum / pressure conservation in its inner to extract/empty where there is not any air intake.

Technical data:
- Extraction system based on the depression creation in the tank inner (Ventury system) (-0.8 bar)
- Emptying system at pressure (0.45 bar)
- Sealed security valve, tared at 0.5 bar
- Sealed valve that regulates the air inlet, tared at 0.9 bar
- Air hose connection
- Water-repellent filtering element of 5 µm (micron)
- Minimum pressure: 6 bar
- *Required air pressure of 200 l/min at 6 bar or suctioned flow of 400 l/min*

Equipped with:
Vacuum gauge -1 +3 bar · Tank for the extracted fuel of 200-litre capacity · Transparent vessel of 10-litre capacity · Lower valve for the total empty of the tank · Level indicator · MGE-40 electronic gear meter · PA-60 automatic petrol nozzle · 2 Ø8x16 mm tank extraction tube of 1.5 m · 2 Ø12x9 mm tank extraction tube of 1.5 m · 4 m Ø20 mm transparent hose · 5.5 m transparent hose with 1/2" metallic galvanised lance · chassis with a handle and wheels

LGN-200

■ **Optional:**

• Water paste · water level indicator	807613001
• 5.5 m transparent hose + 1 m metallic galvanised lance	480006002
• 2 x Ø12x9 mm and 8x6 mm tank extraction tube of 1.5 m	480006001
• 0.75 m M3/4" complete drain probe	480006003
• Air output tube adapter (service station)	480105010

USE GUIDE

Switch it on the air inlet until getting the exact pressure.

Close the air valve and place the extractor-decontaminator close to the container. Take down the probe until its bottom.

It suctions the impurities of the tank bottom.

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DIESEL PUMPS

IRON-50 230 VAC

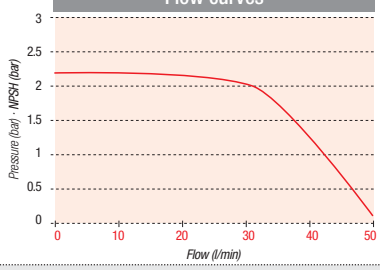
Page 16

Equivalence Box

	FREE	PT-60	PSF-040	PA-60
IRON-50 230 VAC	50 l/min 1.5 A	45 l/min 1.6 A	46 l/min 1.6 A	45 l/min 1.6 A

CONNECTION: 1" · SUCTION: 2.7 m 1 1/4" · DELIVERY: 4 m 1"

Flow curves



IRON-50 12 or 24 VDC

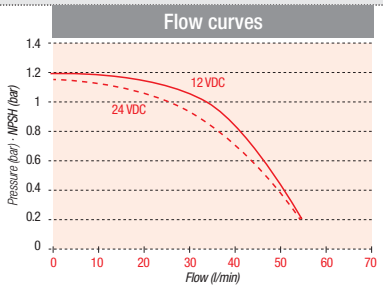
Page 18

Equivalence box

	LIBRE	PT-60	PSF-040	PA-60
IRON-50 12 VDC	53 l/min 16 A	43 l/min 18 A	44 l/min 18 A	34 l/min 19 A
S-50 12 VDC	42 l/min 17 A	34 l/min 18 A	36 l/min 18 A	28 l/min 19 A
IRON-50 24 VDC	53 l/min 7.9 A	43 l/min 8.5 A	44 l/min 8.9 A	33 l/min 9.5 A
S-50 24 VDC	42 l/min 8.5 A	34 l/min 8.9 A	36 l/min 9.1 A	28 l/min 9.5 A

CONNECTION: 1" · SUCTION: 2.7 m 1 1/4" · DELIVERY: 4 m 1"

Flow curves



IRON-75 230 VAC

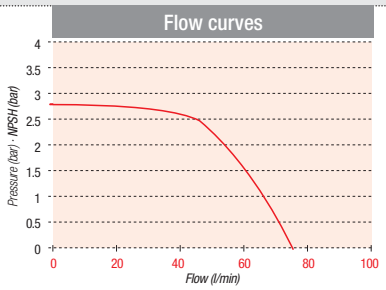
Page 20

Equivalence box

	LIBRE	PT-60	PSF-040	PA-60
IRON-75 230 VAC	80 l/min 1.9 A	72 l/min 2.2 A	74 l/min 2.1 A	72 l/min 2.2 A
S-75 230 VAC	- -	69 l/min 2.4 A	71 l/min 2.3 A	69 l/min 2.4 A

CONNECTION: 1" · SUCTION: 2.7 m 1 1/2" · DELIVERY: 4 m 1 1/4"

Flow curves



AG-90 12 or 24 VDC

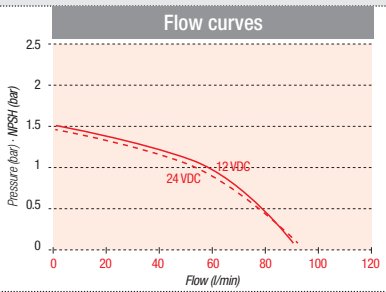
Page 22

Equivalence box

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

CONNECTION: 1" · SUCTION: 2.7 m 1 1/2" · DELIVERY: 4 m 1 1/4"

Flow curves



AG-100 0.74 kW 230 VAC

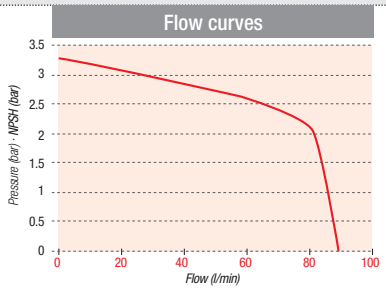
Page 24

Equivalence box

	LIBRE	PSF-040	PA-60	PA-80
AG-100 0.74 kW	93 l/min 3.9 A	85 l/min 5.1 A	80 l/min 4.5 A	85 l/min 4.8 A
	PA-120			
	88 l/min 4.1 A			

CONNECTION: 1" · SUCTION: 2.7 m 1 1/2" · DELIVERY: 4 m 1 1/4"

Flow curves

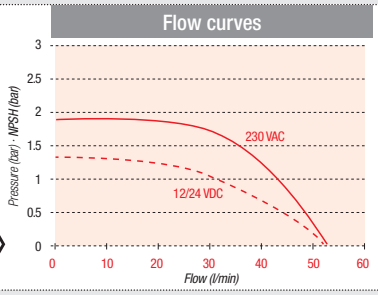


PETROL PUMPS

IRON-50 Ex 230 VAC
IRON-50 Ex 12 or 24 DVC

Page 26

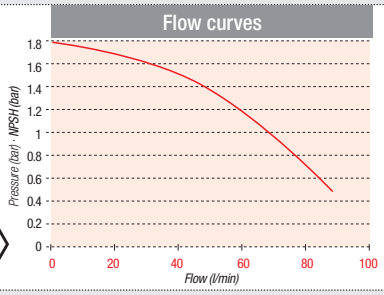
Flow curves



AG-800 230 VAC

Page 26

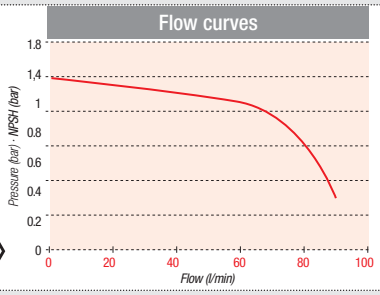
Flow curves



AG-900 12 or 24 VDC

Page 26

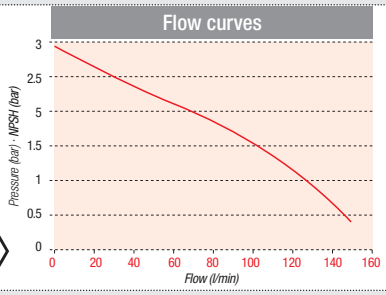
Flow curves



BAG-800 230-400 VAC

Page 26

Flow curves



Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

AdBlue/DEF

DESCRIPTION | CODE

SUPPLY KITS FOR ADBLUE/DEF

These kits are specially designed for the AdBlue/DEF supply to vehicles from a 200-litre drum 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 it on the wall.

Composed of:

- *BD-30 230 VAC* self-priming diaphragm pump · Flow: 30 l/min
- Metallic support with nozzle hanger
- 1.5 m transparent AdBlue/DEF suction hose
- 4 m Ø3/4" delivery AdBlue/DEF hose
- Universal zinc-plated hook set (adaptable to all type of tanks)
- Minimum operation temperature of the kit: -10 ºC

■ **Available accessories:**

- MGE-40BLUE · Electronic meter · Accuracy: *±0.8 %*
- PT-60 · Manual nozzle special for AdBlue/DEF
- PA-60U · Automatic nozzle special for AdBlue/DEF
- Suction Kits for 200-litre drums and 1,000-litre tanks *(Refer to Kit 1, 2 & 3)*

	Pump	Nozzle	Suction kits		
■ **AD-200M Kit**	BD-30	Manual **PT-60**	200-litre drum	1	19071
■ **AD-200A Kit**		Automatic **PA-60U**	200-litre drum	1	19091
■ **AD-1000M Kit**		Manual **PT-60**	1,000-litre tank	2	19081
■ **AD-1000A Kit**		Automatic **PA-60U**	1,000-litre tank	2	19101
■ **AD-CDSM Kit**		Manual **PT-60**	1,000 litres - CDS	3	19121
■ **AD-CDSA Kit**		Automatic **PA-60U**	1,000 litres - CDS	3	19111
■ **SADE-200M Kit**	SBD-30	Manual **PT-60**	200-litre drum	1	19011
■ **SADE-200A Kit**		Automatic **PA-60U**	200-litre drum	1	19031
■ **SADE-1000M Kit**		Manual **PT-60**	1,000-litre tank	2	19021
■ **SADE-1000A Kit**		Automatic **PA-60U**	1,000-litre tank	2	19041
■ **SADE-CDSM Kit**		Manual **PT-60**	1,000 litres - CDS	3	19061
■ **SADE-CDSA Kit**		Automatic **PA-60U**	1,000 litres - CDS	3	19051

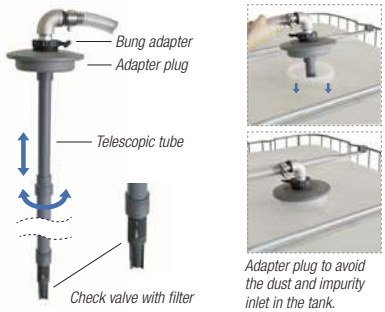
** Ask for available kits at 12 VDC*

KIT 1

SUCTION KIT FOR DE 200-LITRE DRUMS

KIT 2

SUCTION KIT FOR DE 1,000-LITRE TANKS



Adapter plug to avoid the dust and impurity inlet in the tank.

KIT 3

SUCTION KIT FOR DE 1,000-LITRE TANKS (CDS)

Special CDS plug compatible with the GreenChem and AIR1 tanks

Universal support

BRM-U

1.1 PUMPS

BD-30 230 VAC · SELF-PRIMING DIAPHRAGM PUMP	*02231*
BD-30 12 VDC · SELF-PRIMING DIAPHRAGM PUMP	02240

- Flow: 30 l/min
- *Motor: 0.37 kW 230 VAC 50/60 Hz · self-ventilated or 0.18 kW 12 VDC*
- *1,750 rpm*
- Operation: S2 20'
- IP-55 Protection · ON/OFF switch
- Inlet/outlet: *F3/4"*
- Min/max. Temperature: -5 ºC / +40 ºC
- Pressure: 1.6 bar
- Maximum suction height: 2 m
- 2 m electrical cable with approved plug (230 VAC)

UNIVERSAL SUPPORT	800404259
BRM-U · ROTARY PLASTIC PUMP	04120

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION | CODE

1.2 MECHANICAL METER

MG-80 · MECHANICAL METER — 32000-CF00000

- Fireproof measuring chamber with oscillating disc
- Flow: 10-90 l/min · Accuracy: ±1 %
- Partial indicator of 3 digits and totalizer of 6 digits
- Maximum operation pressure: 3.5 bar
- Maximum temperature: 60 ºC · Minimum temperature: -10 ºC
- Polyamide + Fibreglass housing
- Connection 1" GAS (BSP) with 3 inlets and 2 outlets
- It is supplied with 2 additional Male/Female 1" GAS (BSP) adapters (other threads under order).
- The 1" GAS (BSP) red adapter has built in the filter-sieve of 350 µm (micron).
- For private use, not suitable for fiscal operations

MG-80

1.3 ELECTRONIC GEAR METERS WITH PVC BODY

- PVC body
- 5-digit display with TOTAL and PARTIAL of the supplied litres
- Maximum pressure: 5 bar
- Fluid viscosity: 1-200 cSt
- Feeding by button battery of long duration
- Low battery display
- It has calibration parameters and stored litre totalizer in a PERMANENT MEMORY.
- Min./max. temperature: -10 ºC / +50 ºC - Max. humidity: 95 HR

MGE-40BLUE · 4-40 l/min · F1" · Accuracy *±0.8 %* — 32690-CF00000

MGE-110BLUE · 10-110 l/min · F1" · Accuracy ±0.8 % — *32642-CF00000*

MGE-400BLUE · 20-400 l/min · F2" · Accuracy ±0.8 % — 32610-CF00000

MGE-40BLUE

MGE-110BLUE

MGE-400BLUE

1.4 PULSERS

MGI-40BLUE · 4-40 l/min · F1" · Accuracy *±0.8 %* — 32700

Two channels: 98 ±2 % pulses per litre and channel

MGI-110BLUE · 10-110 l/min · F1" · Accuracy ±0.8 % — 32630

Two channels: 41 ±2 % pulses per litre and channel

MGI-400BLUE · 20-400 l/min · F2" · Accuracy ±0.8 % — 32620

Two channels: 5.5 pulses per litre and channel

MGE/I-110BLUE · 5-110 l/min · F1" · Accuracy ±0.8 % — 32641

In the back cover there are the pulser sensors of two channels giving 41 pulses per litre and channel.

MGI-40BLUE

MGI-110BLUE

MGI-400 BLUE

MGE/I-110 BLUE

1.5 NOZZLES

PT-60 · MANUAL NOZZLE (60 litres) — 47010

- Flow: 60 l/min
- Connection F3/4"
- Made of polyamide 6 -15% Fibreglass
- *Max. pressure: 2 bar*

PA-60UPP + SWIVEL · AUTOMATIC NOZZLE (45 litres) — *47292*

- *Materials of construction: PP, stainless steel, Viton*
- *Flow: 12-45 l/min*
- *Inlet connection: BSPP1"Some other model- Automatic nozzle with trigger with safety cut out valve*
- *Max. pressure: 4 bar*

PT-60

PA-60UPP

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COMPACT BLUE BD-30E

mm (approx.) 405 × 405 × 460

kg (approx.) 18

COMPACT BLUE BD-30GE

TOTEM BLUE BD-30E TOTEM BLUE GE

mm (approx.) 1,500 × 385 × 435

kg (approx.) 49

COMPACT BLUE BD-30K

mm (approx.) 405 × 405 × 460

kg (approx.) 23

DESCRIPTION	CODE
COMPACT and TOTEM supply kits for the AdBlue/DEF supply and measurement - Flow: **30 l/min** - BD-30 self-priming diaphragm pump *(page 74)* - *MGI-40Blue* electronic gear meter · Accuracy ***±0.8 %*** *(page 75)* - 4 m Ø19 mm delivery hose special for AdBlue/DEF - PA-60U automatic nozzle - Nozzle hanger with automatic switch for the pump starting and stop	
COMPACT BLUE BD-30E 230 VAC - Electronic calibration - 5-digit display with total and partial of the supplied litres - Button-powered display	19670-CF00000
COMPACT BLUE BD-30GE 230 VAC WITH LITRE PRESET - Supply kit with 6-digit luminous display that allows the preset of the volume to be supplied - Electronics powered at 230 VAC - Please refer to electronics features in page 34	19672-CF00000
TOTEM BLUE BD-30E 230 VAC - Electronic calibration - 5-digit display with total and partial of the supplied litres - Button-powered display	19700-CF00000
TOTEM BLUE BD-30GE 230 VAC WITH LITRE PRESET - Supply kit with 6-digit luminous display that allows the preset of the volume to be supplied - Electronics powered at 230 VAC - Please refer to electronics features in page 34	19703-CF00000
TOTEM BLUE GE 230 VAC WITH LITRE PRESET *without pump - Supply kit with 6-digit luminous display that allows the preset of the volume to be supplied - Electronics powered at 230 VAC - Please refer to electronics features in page 34	19704-CF00000

2.1 SUPPLY KITS WITH OWN CONSUMPTION CONTROLLER

Supply kits with GK-7 or GK-7Plus own consumption controller in order to be connected to a computer and manage a restricted use, the control of the supplies, users and/or vehicles.
**Refer to the communication kits and software in page 41-46.*

COMPACT BLUE BD-30K 230 VAC · 60 users · 200 services in memory **COMPACT BLUE BD-30K 230 VAC · 130 users · 500 services in memory**	19680-CF00000 19680-CF00001
COMPACT BLUE BD-30Plus 230 VAC · 60 users · 200 services in memory **COMPACT BLUE BD-30Plus 230 VAC · 130 users · 500 services in memory**	19681-CF00000 19681-CF00001
TOTEM BLUE BD-30K 230 VAC · 60 users · 200 services in memory **TOTEM BLUE BD-30K 230 VAC · 130 users · 500 services in memory**	19710-CF00000 19710-CF00001
TOTEM BLUE BD-30Plus 230 VAC · users · 200 services in memory **TOTEM BLUE BD-30Plus 230 VAC · 130 users · 500 services in memory**	19711-CF00000 19711-CF00001

Optional for the COMPACT model

• Hexagonal pedestal base (ask for it)	-

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION | CODE

3.1 BLUE KITS

3,000-LITRE HORIZONTAL BLUE-KIT	808401021
5,000-LITRE HORIZONTAL BLUE-KIT	808401022

Complete Kits to store and supply AdBlue/DEF.

Composed of:
TANK
- Tank of 3,000 or 5,000 litres made of high density polythene and high molecular weight. These tanks are moulded in one piece; they are perfectly watertight without glues or weldings;
- Special thickness for thermal isolation;
- High strong and excellent collision resistance;
- Its inner surface is smooth, avoids the pores and makes easier its cleaning;
- Translucent wall (according to the model);
- Metallic support for the supply kit;
- Metallic inserts to be fixed to support sheet directly to the tank
- It is included the wood pallet for its transport and stable base.

INCLUDED ACCESSORIES:
- Suction tube;
- Level clock;
- 2" charging hole;
- Manhole;
- Air inlet

Optional:
The Kit can be supplied with any available supply kit for AdBlue/DEF.

Size and weight (approx.)
· 3,000 BLUE-KIT
2,200x1,500x1,900 mm · 230 kg

· 5,000 BLUE-KIT
2,300x1,900x2,030 mm · 375 kg

***Refer to more AdBlue/DEF tanks in *page 68*.**

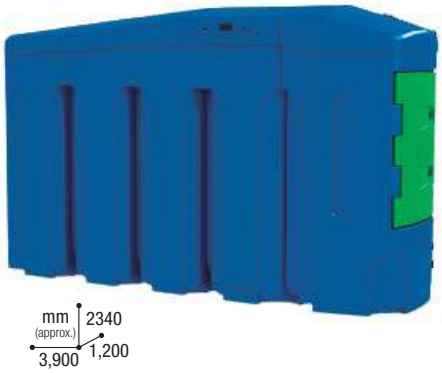
3.2 BLUETANK

BLUETANK SLIM-4000 · 4,000-litre capacity	38927

- Resistant to corrosion and UV radiation
- The door opened to the right or the left.
- Lockable housing protects the dispensing equipment against unauthorized access.
- The tank can be easily transported by a forklift truck.
- Raised roof enables easy access to the tank inner.

**Warranty of 10 years*

Composed of:
- 2" filling line (stainless steel)
- Self-suction pipe with 1" suction line with filter and check valve
- Support for keeping the nozzle in its correct position
- Lockable door for the supply kit and inspection lid in the tank top.
- 8" inspection hatch on the tank inner



3.3 BLUEBOX

BLUEBOX-EF 15 · 1,500 litres · 2,550x840x1,970 mm
BLUEBOX-EF 20 · 2,300 litres · 3,000x840x1,970 mm
BLUEBOX-EF 20S · 2,300 litres · 2,800x760x2,170 mm
BLUEBOX-EF 30 · 3,000 litres · 3,000x1,120x1,970 mm
BLUEBOX-EF 40 · 4,000 litres · 3,100x1,120x2,320 mm
BLUEBOX-EF 50 · 5,000 litres · 3,000x1,820x2,170 mm
BLUEBOX-EF 50S · 5,000 litres · 3,100x1,490x2,450 mm
BLUEBOX-EF 75 · 7,500 litres · 4,245x1,490x2,450 mm
BLUEBOX-EF 100 · 9,300 litres · 3,100x2,550x2,670 mm
BLUEBOX-EF 100S · 10,000 litres · 5,300x1,820x2,170 mm
BLUEBOX-EF 100SS · 10,000 litres · 5,550x1,490x2,450 mm
BLUEBOX-EF 200 · 18,600 litres · 5,600x2,550x2,670 mm
BLUEBOX-EF 300 · 27,900 litres · 8,050x2,550x2,670 mm

Composed of:
- High density polythene tank with high molecular weight. These tanks are moulded in just one piece perfectly watertight without glues or weldings.
- Submersible pump special for AdBlue/DEF · 0.75 kW · 70 l/min
- MGI-Blue pulser · Accuracy *±0.8 %* · 5-digit digital display
- 50 mm insulating panel
- Temperature control
- Electroventilation
- 1 1/2" charging hole

Optional:
- GK-7 own consumption controller with PC communication
- GENIUS-INOX level indicator with the option of GPRS communication to internet
- Hose-reel
- "TODO" charging connector

STANDARD

**Corporate image customisation*

**Ask for other available models*

OPTIONAL:
GK-7 controller

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4 GRG · TRUCKTANK BLUE

DESCRIPTION	CODE
TRUCKTANK BLUE FT200	38423
TRUCKTANK BLUE FT420	38424

- Neutral white tank with baffle
- Lockable cover
- Suction filter with mesh filter in order to avoid the impurity suction

*TANK WARRANTY: 5 years
Manufactured according to ISO 9001:2008 (cert. no. FM 57348)
Highest quality components engineered for long term use with AdBlue/DEF

5 HOSE-REELS

MF3/4" HOSE-REEL FOR ADBLUE/DEF with 10 m Ø19 mm HOSE	807303050
MF3/4" HOSE-REEL FOR ADBLUE/DEF with 15 m Ø19 mm HOSE	807303051

- Stainless steel connections
- 90º stainless steel swivel
- Viton joints
- Diameter: MF3/4"

6 GENIUS-INOX · LEVEL INDICATOR

mm (approx.) 185 160 60

kg (approx.) 2.50

GENIUS-INOX · 230 VAC · LEVEL INDICATOR	25732

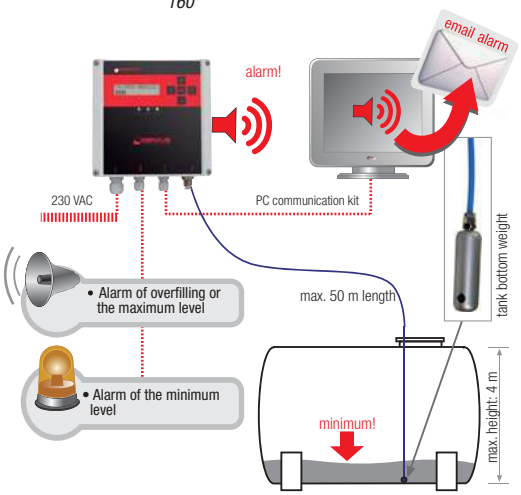
APPLICATION

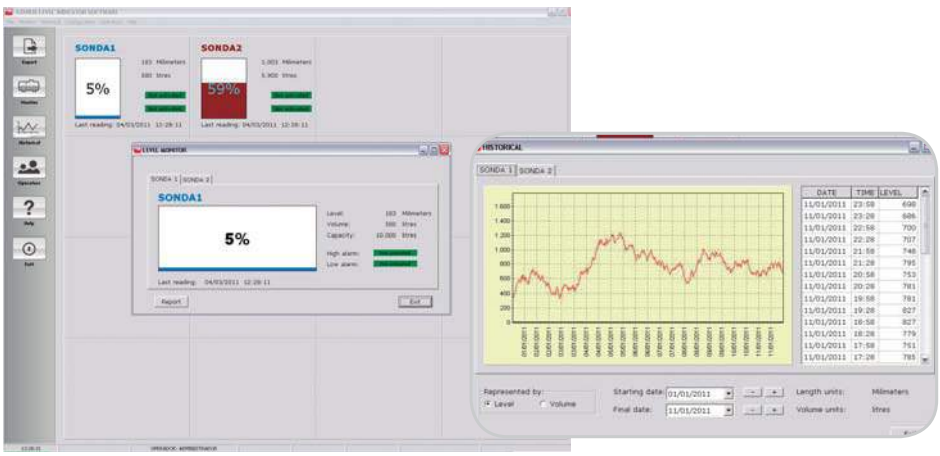
- GENIUS is a level monitor in atmospheric tanks.
- The level measurement is made measuring the static pressure of the liquid height through a tube into the tank.
- It allows measuring the level in rectangular and cylindrical, horizontal or vertical tanks with a maximum height of 4 m.
- Level reading in height (m or inches) or volume (litres or gallons)
- It is suitable for AdBlue/DEF or phytosanitary products.

Refer to the communication kits and software in page 50-52

Optional:

• Communication kit via USB CABLE	257310000
• Communication kit via ETHERNET	257330000





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LUBRICANT

25 l/min

230 VAC

0.37 KW

EA-88 (0.37 kW)

mm (approx.) 190 / 260 / 160 — kg (approx.) 10

DESCRIPTION | CODE

25 l/min 230 VAC

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

EA-88 (0.37 kW) 230 VAC · 20-25 l/min — 5-6 bar — 03000

- It is suitable for lubricants of maximum 200 cSt viscosity.
- With recirculation bypass system
- Suction: 2.5 m · Delivery: 40 m
- Flow: 20-25 l/min (SAE-20/50 W at 25 ºC)
- Motor: 0.37 kW 230 VAC 50 Hz single-phase · self-ventilated
- IP-55 protection
- With thermal protector
- Consumption: 2-4 A
- 1,500 rpm
- Bypass pressure: 5-6 bar
- Inlet/outlet: 1/2" GAS (BSP)
- ON/OFF switch
- 3 m 230 VAC connection cable with injected plug

0.74 kW

EA-88 (0.74 kW)

mm (approx.) 200 / 290 / 190 — kg (approx.) 13.2

EA-88 (0.74 kW) 230 VAC · 20-25 l/min — 9-10 bar — 03070

- It is suitable for lubricants of maximum 350 cSt viscosity
- With recirculation bypass system
- Suction: 2.5 m · Delivery: 40 m
- Flow: 20-25 l/min (SAE-20/50 W at 25 ºC)
- Motor: 0.74 kW 230 VAC 50/60 Hz single-phase · self-ventilated
- IP-55 protection
- With thermal protector
- Consumption: 4-6 A
- 1,500 rpm
- Bypass pressure: 9-10 bar
- Inlet/outlet: 1/2" GAS (BSP)
- ON/OFF switch
- 3 m 230 VAC connection cable with injected plug

Flow curves

*Note: Free outlet flow
The final flow is subject to the accessories and the installation conditions.

■ Optional:

- Pump support handle *(page 100)* — 030003001

SEA-88 with MGE-40

SEA-88 (0.37 kW) · PUMP WITH MGE-40 ELECTRONIC GEAR METER — 31201
SEA-88 (0.74 kW) · PUMP WITH MGE-40 ELECTRONIC GEAR METER — 31202

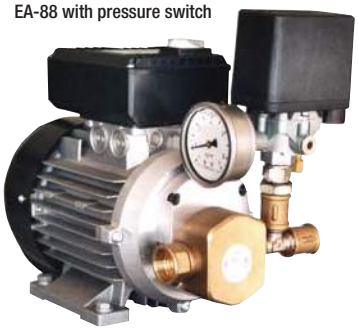
EA-88 (0.37 kW) with pressure switch · 10 bar — 03110
EA-88 (0.74 kW) with pressure switch · 35 bar — 03080
10-35 bar

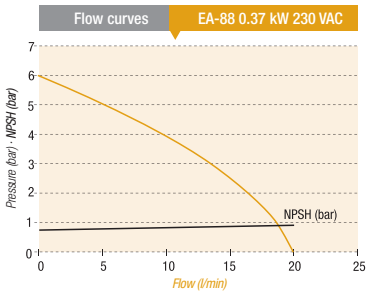
In an industrial supply installation at long distance, it is advisable to equip the pump with a PRESSURE SWITCH, which allows the pump starting and stopping through the nozzle opening or closing.
It has built in a check valve.

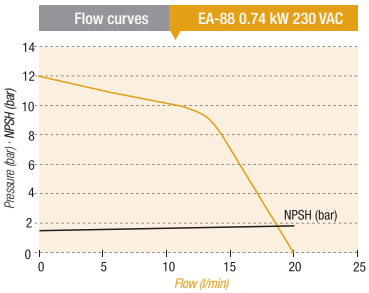
■ Optional:

- Pump support handle *(page 100)* — 030003001
- Vacuum gauge (*pump with pressure switch*) — 8035000020

EA-88 with pressure switch







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DESCRIPTION | CODE

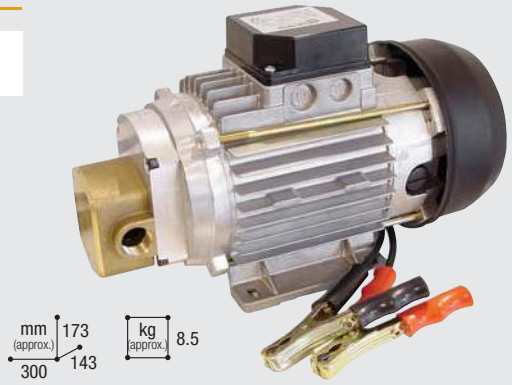
25 l/min 12 / 24 VDC

EA-90 *(0.37 kW)* 12 VDC · 20-25 l/min	03014
EA-90 *(0.37 kW)* 24 VDC · 20-25 l/min	03090

5-6 bar

- It is suitable for lubricant transfer with average/low density
- With recirculation bypass system
- Suction: 2.5 m · Delivery: 40 m
- Flow: 20-25 l/min (SAE-20/50 W at 25 ºC)
- Motor: *0.37 kW* self-ventilated 12 or 24 VDC
- S1 continuous duty
- IP-55 protection
- Consumption: *35-55 A (12 VDC) and 20-32 A (24 VDC)*
- 1,500 rpm
- Bypass pressure: 5-6 bar
- Inlet/outlet tube: 1/2" GAS (BSP)
- With clamps for 12 or 24 VDC battery connection with 2 m of cable

EA-90



25 l/min | 12/24 VDC | 0.37 kW

Flow curves

*Note: Free outlet flow
The final flow is subject to the accessories and the installation conditions.

SEA-90 (0.40 kW) 12 VDC · PUMP WITH MGE-40 ELECTRONIC GEAR METER	31470
SEA-90 (0.40 kW) 24 VDC · PUMP WITH MGE-40 ELECTRONIC GEAR METER	31550

SEA-90

■ Optional:

- Pump support handle *(page 100)* — 030003001

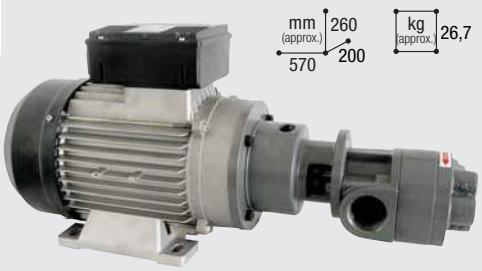
50-55 l/min 230 VAC

EA-65 (2.2 kW) 230 VAC · 50-55 l/min · SINGLE-PHASE	03040
EA-65 (2.2 kW) 230/400 VAC · 50-55 l/min · TRIPHASE	03043

6-8 bar

- It is suitable for lubricant transfer with average/low density
- With recirculation bypass system
- Suction: 2.5 m · Delivery: 40 m
- Flow: 50-55 l/min with SAE-10/30W
- Motor: 2.2 kW 230 VAC single-phase or 230/400 VAC triphase · self-ventilated
- IP-55 protection
- With thermal protector
- Consumption: 10-15 A (230 VAC) · 6-8 A (230/400 VAC)
- 1,400 rpm
- Pressure: 6-8 bar (adjustable through the bypass valve)
- Suction/delivery pump diameter: 1 1/4" GAS (BSP)

EA-65

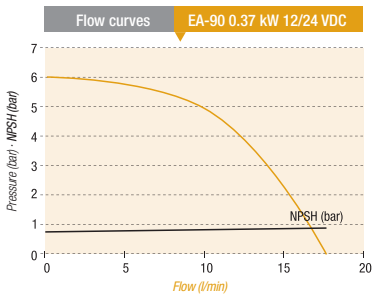


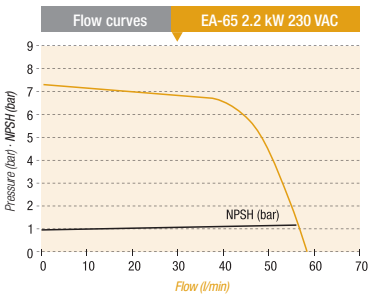
50-55 l/min | 230 VAC | 2,2 KW

Flow curves

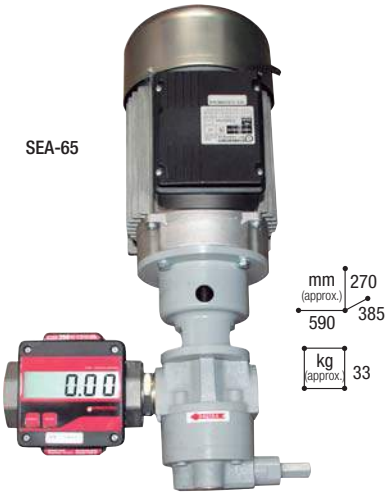
*Note: Free outlet flow
The final flow is subject to the accessories and the installation conditions.

SEA-65 230 VAC · PUMP WITH MGE-250 ELECTRONIC GEAR METER	31760
SEA-65 230/400 VAC · PUMP WITH MGE-250 ELECTRONIC GEAR METER	31761





SEA-65



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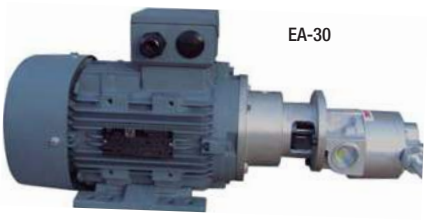
1 «MONOBLOC» SELF-SUCTION GEAR PUMPS FOR LUBRICANTS

DESCRIPTION	CODE

33-83 l/min 230 VAC



EA-30

EA-30 (1.49 kW) 230/400 VAC TRIPHASE · 33 l/min · 1” — 11 bar — 24130

- Maximum suction height: 3 m
- Flow: 33 l/min
- Motor: 1.49 kW 230/400 VAC Triphase · IP-55 protection
- Consumption: 5.3 / 3.1 A
- 1,500 rpm
- Max. pressure: 11 bar (adjustable through the bypass valve)
- Max. working temperature: 130 ºC
- Suction/delivery pump diameter: 1” GAS (BSP)

EA-50

EA-50 (1.49 kW) 230/400 VAC TRIPHASE · 50 l/min · 1 1/4” — 8 bar — 24150

- Maximum suction height: 4 m
- Flow: 50 l/min
- Motor: 1.49 kW 230/400 VAC Triphase · IP-55 protection
- Consumption: 9.9 / 5.7 A
- 1,500 rpm
- Max. pressure: 8 bar (adjustable through the bypass valve)
- Max. working temperature: 180º C
- Suction/delivery pump diameter: 1 1/4” GAS (BSP)

EA-80

EA-80 (2.98 kW) 230/400 VAC TRIPHASE · 83 l/min · 1 1/4” — 10 bar — 24160

- Maximum suction height: 4 m
- Flow: 83 l/min
- Motor: 2.98 kW 230/400 VAC Triphase · IP-55 protection
- 1,500 rpm
- Max. pressure: 10 bar
- Max. working temperature: 180 ºC
- Suction/delivery pump diameter: 1 1/4” GAS (BSP)

2 «BEDPLATE» SELF-SUCTION GEAR PUMPS FOR LUBRICANTS

5 bar

BEA-100

BEA-150

BEA-1000

- Maximum suction height:: 3-4 m
- IP-55 protection
- Consumption: 31 A
- 1,500 rpm
- Max. pressure: 5 bar (adjustable through the bypass valve)
- Max. working temperature: 180 ºC

BEA-100 230/400 VAC · 115 l/min · 1 1/4”	24170
BEA-150 400/660 VAC · 175 l/min · 1 1/2”	24180
BEA-330 400/660 VAC · 330 l/min	24191
BEA-1000 400/660 VAC · 1000 l/min	24200

Ask for other flows.

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION	CODE
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
"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 230 VAC 300 W, with adjustable thermostat from 20 to 90 ºC, in case there is a product prewarming. It is easy to install and its maintenance is simple.
- Regenerating filtering stainless steel cartridge
- Flow: 82 l/min · Filtration range: 300 µm (micron)
- Sealing with NB 100/70 DIN3535 Nitrile rubber joints
- Inlet / outlet connection: F1"

FUP-1 FF1" FILTER with thick mesh (POLYAMIDE + FIBREGLASS)	66032

York base filter

"Y" brass filter

FGR-25

FUP-1 filter

MANUAL PUMPS 4

BP-5 · MANUAL LEVER PUMP 04010

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

Technical Data:
- The pump body is made of aluminium as well as the discharging pipe.
- 880 mm metallic suction telescopic tube made of aluminium
- 2" connection adaptable to metallic drums of 50, 100 and 200 litres
- Nitrile or Viton joints
- Transfer capacity: 0.5 litres x piston-stroke (litres per lever stroke)

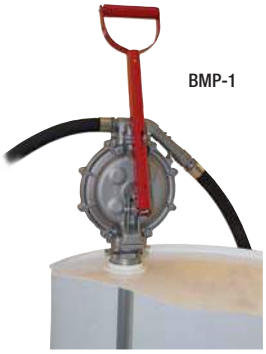
BP-5

BMP-1 · MANUAL DOUBLE ACTION PISTON PUMP 04020

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 so as to prevent the dirt and dust entry in the nozzle.

Technical Data:
- Capacity: *800 ml per stroke*
- Inlet: 1" (NPT)
- Outlet: 3/4" (NPT)
- 2.5 m Ø3/4" petrol hose
- Drum plug: adjustable at 2"
- Suction tube: Ø33.5 mm x 1 m
- Aluminium body
- Stainless steel inlet
- Heavy-duty steel handle
- Self-lubricating sealing

BMP-1



BRM-88 · ROTARY ALUMINIUM PUMP 04030

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

Technical Data:
- Type: rotary blade
- Capacity: 20 litres x 70 rounds
- Suction tube: Ø32 mm
- Discharging pipe: Ø25 mm
- Material:
  - · body: tempered aluminium alloy
  - · handle: aluminium die casting

BRM-88

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION	CODE

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

EA-88 (0.37 or 0.74 kW) ELECTRIC KITS FOR 200-LITRE DRUM

Equipped with:
- EA-88 0.37 or 0.74 kW 230 VAC self-suction gear pump
- 4 m R1 Ø1/2" delivery hose with adapters in both ends
- 1 m Ø3/4" transparent suction hose with valve and York filter and bun adapter
- PG-40 manual nozzle for the lubricant supply or PMGE-40 electronic nozzle-meter for the lubricant supply and measure with 60º rigid outlet with non-drip valve
- 2 universal hook set to hang the nozzle and the hose

KDE-200 0.37 kW without meter	20620
KDE-200E 0.37 kW with meter	20630
KDE-200 0.74 kW without meter	22010
KDE-200E 0.74 kW with meter	20650

EA-88 0.74 kW ELECTRIC KITS FOR 200-LITRE DRUM

Equipped with:
- EA-88 0.74 kW 230 VAC self-suction gear pump
- 4 m R1 Ø1/2" delivery hose with adapters in both ends
- 3/4" metallic suction tube kit · height 900 mm · with York filter built in and bung adapter
- PG-40 manual nozzle for the lubricant supply or PMGE-40 electronic nozzle-meter for the lubricant supply and measure with 60º rigid outlet with non-drip valve

KEB1-200 without meter	20330
KEB1-200E with meter	20340

EA-88 0.74 kW ELECTRIC KITS WITH HOSE-REEL FOR 200-LITRE DRUM

Equipped with:
- EA-88 0.74 kW 230 VAC self-suction gear pump
- 10 m R1 Ø1/2" delivery hose with adapters in both ends
- 3/4" metallic suction tube kit · height 900 mm · with York filter built in and bung adapter
- PG-40 manual nozzle for the lubricant supply or PMGE-40 electronic nozzle-meter for the lubricant supply and measure with 60º rigid outlet with non-drip valve
- Open hose-reel

KEBE-200 without meter	20350
KEBE-200E with meter	20360

Common accessories for all the kits:

• Universal zinc-plated hook set *(page 100)*	800404049
• Pump support handle *(page 100)*	030003001
• 4" F2" adapter plug for 1,000-litre tanks *(page 98)*	805204004
• DP-1000LX · Polythene tank of 1,000-litre capacity *(page 98)*	37030
• CE-200 · 185-kg drum trolley for hose-reel *(page 99)*	68630
• Universal support *(page 60)*	800404259

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

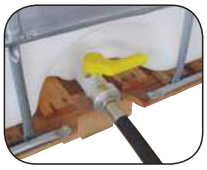
DESCRIPTION	CODE
ELECTRIC DISPENSER KIT FOR 1,000-LITRE TANK	
Lower suction	
Equipped with: - EA-88 0.37 or 0.74 kW 230 VAC self-suction gear pump - 6 m R1 Ø1/2" delivery hose with adapters in both ends - PG-40 manual nozzle for the lubricant supply or PMGE-40 electronic nozzle-meter for the lubricant supply and measure with 60º rigid outlet with non-drip valve - Universal support with nozzle hanger - TAC · Aluminium adapter plug	
■ **KDE-1000 INF. 0.37 kW without meter**	20641
■ **KDE-1000E INF. 0.37 kW with meter**	20291
■ **KDE-1000 INF. 0.74 kW without meter**	22021
■ **KDE-1000E INF. 0.74 kW with meter**	20661
Direct top suction	
- 2" bung adapter and adapter plug for 1,000-litre tanks - 3/4" metallic suction tube kit · height 1 m with filter built in	
■ **KDE-1000 SUP. 0.37 kW without meter**	20640
■ **KDE-1000E SUP. 0.37 kW with meter**	20290
■ **KDE-1000 SUP. 0.74 kW without meter**	22020
■ **KDE-1000E SUP. 0.74 kW with meter**	20660
DAE-1000 · ELECTRIC DISPENSER KIT FOR 1,000-LITRE TANK	12690
Equipped with: - EA-88 0.74 kW 230 VAC self-suction gear pump - 10 m Ø1/2" R1 delivery hose - 3/4" metallic suction tube kit, height 1m with York filter built in - PMGE-40 complete electronic nozzle-meter - Flexible tube with 90º rigid spout and non-drip end - Metallic support with PMGE-40 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)	

KDE-1000

*Tank not included

TOP OUTLET

LOWER OUTLET



DAE-1000

*Tank not included

TOTEM-E LUBE	27310
- Supply kit for lubricant - Display with total and partial of supplied litres	
TOTEM-K LUBE	27320
- Supply kit for lubricant with GK-7 own consumption controller **Refer to controller features in page 39-46.*	

TOTEM-E LUBE

TOTEM-K LUBE

mm (approx.) 1,500 400 340

kg (approx.) 47

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

GM-3 WALL

GM-3 DRUM

GM-5 WALL

GM-5 DRUM

DESCRIPTION	CODE

The pneumatic pumps are intended for the lubricant transfer. They have built in a bung adapter to fix the R2" and M64x4 drum threads.
The delivery capacity of the pump varies according to particular applications and/or combinations: air pressure, viscosity and fluid temperature, delivery hose and connection size and type of nozzle.
The air pressure may vary between a minimum of 3.5 bar and a maximum of 10 bar.
Using the adequate accessories these pumps can be hung up on the wall or assembled on drums, tanks or mobile trolleys.

GM-3 · PNEUMATIC PUMP · RATIO 3:1

Pneumatic pumps specially suitable for the oil transfer with low-medium viscosity (SAE 15/50) and anti-freeze for short-medium distances (40-50 m).

■ GM-3G WALL	12034
■ GM-3G DRUM	12054
■ GM-3 WALL	12030
■ GM-3 DRUM	12050

GM-5 · PNEUMATIC PUMP · RATIO 5:1

Pneumatic pumps specially suitable for the oil transfer with medium-high viscosity (SAE 15/140) and anti-freeze for medium-long distances (150-200 m)

■ GM-5 · WALL	12061
■ GM-5 · DRUM	12081

Model	GM-3G WALL-DRUM	GM-3 WALL-DRUM	GM-5 WALL-DRUM
Flow at 6 bar (l/min)	25	30	28
Ratio	3:1	3:1	5:1
Pressure (bar)	6-8	6-8	6-8
Air consumption (l/min)	200	220	250
Air inlet connection	F1/4" G BSP	F1/4" G BSP	F1/4" G BSP
Oil outlet connection	M1/2" G BSP	M1/2" G BSP	M1/2" G BSP
Noise level (dB)	80	80	80
Tube diameter (mm)	42	42	42
Tube length (mm)	215 - 940	215 - 940	215-940
Weight (kg)	3.77 - 5.35	5.57 - 7.38	5.86 - 7.71

GC-10/200

GC-10/200 · HIGH FLOW PNEUMATIC PUMP — 12140

- Flow: 50 l/min · Maximum working pressure: 80 bar

Suction tube diameter (mm)	Suction tube length (mm)	Pump length (mm)	Total height (mm)	Weight (kg)
40	700	210	910	16

■ **Optional:**

• RP-1 · Pressure regulator with MF1/4" valve *(page115)*	801902001
• RLP-1 · Regulator-lubricator-purifier *(page115)*	801902002
• Pneumatic pump wall support *(page 100)*	800404020
• 25-bar pressure relief kit	12950
• 50-bar pressure relief kit	12960
• 70-bar pressure relief kit	12970

IT MUST BE INSTALLED A REGULATOR-LUBRICATOR-PURIFIER WHEN INSTALLING THE PNEUMATIC PUMPS.

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION	CODE

PNEUMATIC PUMP KIT ON 200-LITRE DRUM

- Pneumatic drum pump
- RP-1 · Pressure regulator
- 3 m R1 Ø1/2" delivery hose with adapters in both ends
- PG-40 manual nozzle for the lubricant supply or PMGE-40 electronic nozzle-meter for the lubricant supply and measure with 60º rigid outlet with non-drip valve
- Bung adapter

KNB-200 GM-3 (SAE 15/50) without meter	20210
KNB-200E GM-3 (SAE 15/50) with meter	20220
KNB-200 GM-5 (SAE 15/140) without meter	20730
KNB-200E GM-5 (SAE 15/140) with meter	20740

KNB-200

PNEUMATIC WALL PUMP KITS FOR 200-LITRE DRUM

- Pneumatic wall pump
- Wall pump holder
- RP-1 · Pressure regulator
- 6 m R1 Ø1/2" delivery hose with adapters in both ends
- PG-40 manual nozzle for the lubricant supply or PMGE-40 electronic nozzle-meter for the lubricant supply and measure with 60º rigid outlet with non-drip valve
- Bung adapter
- 2 m hose (suction-pump union) (type R1, F3/4" adapters and 90º F3/4" elbow)
- 3/4" metallic suction tube, height 900 mm with filter built in

WITHOUT HOSE-REEL

KNP-200 GM-3 (SAE 15/50) without meter	20230
KNP-200E GM-3 (SAE 15/50) with meter	20240
KNP-200 GM-5 (SAE 15/140) without meter	20750
KNP-200E GM-5 (SAE 15/140) with meter	20760

WITH HOSE-REEL of 10 m hose

KNPE-200 GM-3 (SAE 15/50) without meter	20250
KNPE-200E GM-3 (SAE 15/50) with meter	20260
KNPE-200 GM-5 (SAE 15/140) without meter	20790
KNPE-200E GM-5 (SAE 15/140) with meter	20800

Wall oil dripping holder

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

KDN-1000 INF.

*Tank not included

KDN-1000 SUP.

*Tank not included

DAN-1000

*Tank not included

DAN-1000L INF.

*Tank not included

DAN-1000L SUP.

*Tank not included

DESCRIPTION	CODE
PNEUMATIC DISPENSER KITS FOR 1,000-LITRE TANK	
Lower suction	

Pneumatic dispenser kit with lower or top outlet for 1,000-litre polythene tanks.

Composed of:
- Pneumatic wall pump
- RP-1 · Pressure regulator
- 6 m R1 Ø1/2" delivery hose with the universal hook set
- PG-40 manual nozzle for the lubricant supply or PMGE-40 electronic nozzle-meter for the lubricant supply and measure with 60º rigid outlet with non-drip valve
- Universal support with nozzle hanger
- 0.70 m R1 high pressure hose
- TAC · Aluminium adapter plug

■ **KDN-1000 INF.** GM-3 (SAE 15/50) without meter	20670
■ **KDN-1000E INF.** GM-3 (SAE 15/50) with meter	20600
■ **KDN-1000 INF.** GM-5 (SAE 15/140) without meter	20950
■ **KDN-1000E INF.** GM-5 (SAE 15/140) with meter	20960

Direct top suction

- 2" bung adapter and adapter plug for 1,000-litre tanks
- 3/4" metallic suction tube kit · height 1 m with filter built in

■ **KDN-1000 SUP.** GM-3 (SAE 15/50) without meter	20680
■ **KDN-1000E SUP.** GM-3 (SAE 15/50) with meter	20690
■ **KDN-1000 SUP.** GM-5 (SAE 15/140) without meter	20890
■ **KDN-1000E SUP.** GM-5 (SAE 15/140) with meter	20910

DAN-1000 · PNEUMATIC DISPENSER KIT FOR 1,000-LITRE TANK — 12680

Kit for the 1,000-litre polythene tanks.
For its installation it only needs an air inlet at 1 m of the kit.

Composed of:
- GM-3 pneumatic wall pump
- RP-1 · Pressure regulator
- Open hose-reel
- 10 m R1 Ø1/2" delivery hose
- R1 Ø1/2" delivery hose with adapters in both ends, hose-reel connection to the pump
- PMGE-40 electronic nozzle-meter for the lubricant supply and measure with flexible tube with 90º rigid outlet and non-drip end
- 3/4" metallic suction tube, height 1 m with filter built in
- Universal support

DAN-1000L LATERAL · PNEUMATIC DISPENSER KIT FOR 1,000-LITRE TANK

Kit with the same components as the above one but with the metallic support designed for being assembled in the lateral of the 1,000-litre tank.
This support is placed in the metallic protection of the tank without screws or additional fixations.

Lower suction	12683
Direct top suction	12682

■ **Optional:**

- DP-1000LX · Polythene tank of 1,000-litre capacity *(page 98)*	37030

IT MUST BE INSTALLED A REGULATOR-LUBRICATOR-PURIFIER WHEN INSTALLING THE PNEUMATIC PUMPS.

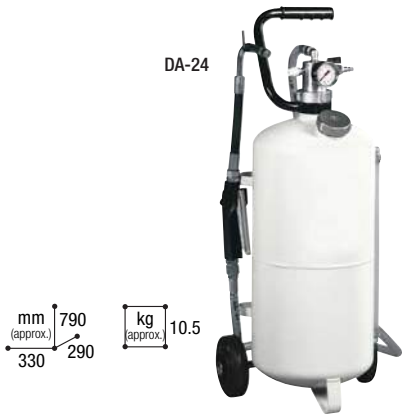
Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION	CODE
MOBILE PNEUMATIC KITS FOR 200-LITRE DRUM	
- Pneumatic pump for 200-litre drum - RP-1 · Pressure regulator - 3 m R1 Ø1/2" delivery hose with adapters in both ends - PG-40 manual nozzle for the lubricant supply or PMGE-40 electronic nozzle-meter for the lubricant supply and measure with flexible tube with 90º rigid outlet and non-drip end - 3/4" bung adapter - Mobile trolley for 200-litre drum	
WITHOUT HOSE-REEL	
■ **KNC-200** GM-3 (SAE 15/50) without meter	20390
■ **KNC-200E** GM-3 (SAE 15/50) with meter	20400
■ **KNC-200** GM-5 (SAE 15/140) without meter	20850
■ **KNC-200E** GM-5 (SAE 15/140) with meter	20860
WITH HOSE-REEL of 8 m hose	
■ **KNCE-200** GM-3 (SAE 15/50) without meter	20410
■ **KNCE-200E** GM-3 (SAE 15/50) with meter	20420
■ **KNCE-200** GM-5 (SAE 15/140) without meter	20870
■ **KNCE-200E** GM-5 (SAE 15/140) with meter	20880

PNEUMATIC LUBRICANT DISPENSER 9

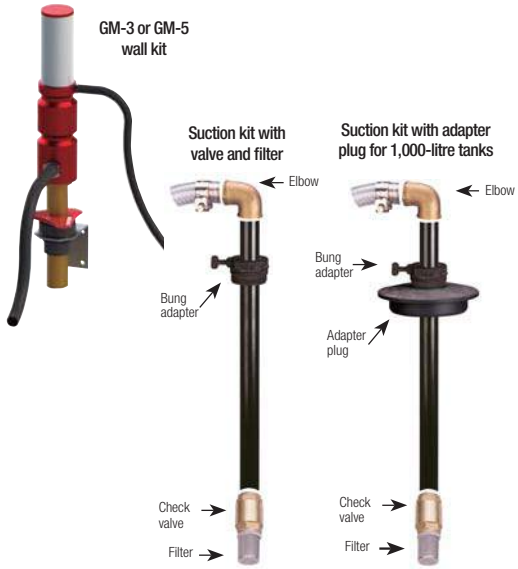
DA-24 · PNEUMATIC LUBRICANT DISPENSER	24060

Autonomous mobile unit for the lubricant supply with a 24-litre steel tank with a level indicator. This must be pressurised with air, connecting a compressor or an air line to the charging valve of the kit. The lubricant is gradually supplied when the control nozzle is activated.



PNEUMATIC KITS FOR FIXED INSTALLATIONS 10

GM-3 PNEUMATIC WALL KIT **GM-5 PNEUMATIC WALL KIT**	181700000 181800000
Composed of: Pump + wall support + R14M air adapter + ER14H quick socket + 1 m MM1/4" air hose with ends + 1.5 m MM1/2" hose with adapters (1 swivel side)	
■ **1 m 3/4" 200-litre drum suction kit**	35880
■ **1,000-litre tank suction kit**	358100200
■ Optional:	
• RP-1 · Pressure regulator with MF1/4" valve *(page 115)*	801902001
• RLP-1 · Regulator-lubricator-purifier *(page 115)*	801902002
• 25-bar pressure relief kit	*12950*
• 50-bar pressure relief kit	*12960*
• 70-bar pressure relief kit	*12970*



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1" HIGH FLOW DIAPHRAGM PUMP

mm (approx.) 279 × 267 × 280

kg (approx.) 6.85

1/4" DIAPHRAGM PUMP

mm (approx.) 163 × 145 × 115

kg (approx.) 0.75

1/2" DIAPHRAGM PUMP

mm (approx.) 225 × 208 × 268

kg (approx.) 3.10

DESCRIPTION	CODE
1" HIGH FLOW DIAPHRAGM PUMP FOR NEW AND WASTE LUBRICANT (170 l/min)	12090

Diaphragm pump for the new and waste lubricant transfer. It can transfer lubricant with small impurities (max. diam. 2 mm). (Ask for other liquids).

- Flow up to 170 l/min
- Air flow: 1,133 l/min
- Max. pressure: 8.6 bar (125 PSI)
- Body: injected aluminium
- Suction connection: 1" BSP · Delivery connection: 3/4" BSP
- Membrane: BUNA
- Seats: aluminium
- Seat joints: BUNA
- System: without lubrication · without half position

DIAPHRAGM PUMPS FOR BRAKE AND ANTIFREEZE LIQUIDS

1/4" NPT DIAPHRAGM PUMP	18 l/min	12160
1/2" NPT DIAPHRAGM PUMP	50 l/min	12150

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

- Max. pressure: 8.6 bar (125 PSI)
- Body: Polypropylene
- Balls: Teflon
- Seats: Polypropylene
- System: without lubrication · without half position

DIAPHRAGM PUMP KIT

DRUM KITS WITH DIAPHRAGM PUMP

- Diaphragm pump
- 4 m R1 Ø1/2" delivery hose with adapters in both ends
- 1 m 3/4" transparent suction hose with valve and York filter and bung adapter
- PG-40 manual nozzle for the lubricant supply or PMGE-40 electronic nozzle-meter for the lubricant supply and measure with 60º rigid outlet with non-drip valve
- 2 universal hook sets to hang the nozzle and the hose
- Open hose-reel with 10 m hose

KBD1/4-200	1/4"	without meter	-	12830
KBD1/4-200E	1/4"	with meter	-	12840
KBDE1/4-200	1/4"	without meter	HOSE-REEL	12870
KBDE1/4-200E	1/4"	with meter	HOSE-REEL	12880
KBD1/2-200	1/2"	without meter	-	12850
KBD1/2-200E	1/2"	with meter	-	12860
KBDE1/2-200	1/2"	without meter	HOSE-REEL	12910
KBDE1/2-200E	1/2"	with meter	HOSE-REEL	12920
KBD1-200	1"	without meter	-	12980
KBD1-200E	1"	with meter	-	12981

RP-1

RLP-1

Optional:

• RP-1 Pressure regulator with MF1/4" valve *(page 115)*	801902001
• RLP-1 · Regulator-lubricator-purifier *(page 115)*	801902002
• Pneumatic pump wall support *(page 100)*	800404020

IT MUST BE INSTALLED A REGULATOR-LUBRICATOR-PURIFIER WHEN INSTALLING THE DIAPHRAGM PUMPS.

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION	CODE

- Open or cased hose-reels of Ø1/2” for several applications specially for lubricant installations.
- They make easier the fluid supply at any working point, being able to be assembled on the wall, on tanks, on ceiling or anchored with fixed or adjustable supports.
- Metallic heavy-duty building with adjustable arms in order to get a better output in any position.
- Resistance: 200 bar.

Ø1/2” OPEN HOSE-REELS (without hose)

■ **Capacity up to 10 m**	807301003
■ **Capacity up to 15 m**	807301005

Open hose-reel with hose

Ø1/2” OPEN HOSE-REELS (with hose)

Open hose-reels with R1 Ø1/2” hose special for lubricant

■ **E-10** with 10 m Ø1/2” hose	807300101
■ **E-15** with 15 m Ø1/2” hose	807300102

Ø1/2” CASED HOSE-REEL (without hose) — 807300200

High resistance cased hose-reel with adjustable bracket for Ø1/2” hose special for lubricant.
Capacity up to 15 m.

Cased hose-reel with hose

Ø1/2” CASED HOSE-REELS (with hose)

Cased hose-reels with R1 Ø1/2” hose special for lubricant.

■ **EC-10** with 10 m Ø1/2” hose with swinging bracket	807300201
■ **EC-15** with 15 m Ø1/2” hose with swinging bracket	807300202

ADJUSTABLE HOSE-REEL WALL BRACKET — 24050

Swinging zinc-plated wall bracket to move the hose-reel in the desired position.

Adjustable bracket

0.8 m Ø1/2” HOSE WITH ADAPTERS IN BOTH ENDS · HOSE-REEL CONNECTION — 803406078

R1/2” hydraulic hose with adapters in both ends (one end with F1/2” mobile nut adapter and the other with M1/2” adapter).

Ø3/4” AUTOMATIC HIGH CAPACITY HOSE-REEL (without hose) — 807301010

160 bar

Automatic retractile hose-reel made of varnished steel suitable for 15 m R3/4” hose for air, grease, lubricant and water transfer. The retractile effect allows picking it up in the required length improving its operation.

- Connection: MM3/4”

Automatic hose-reel

Dim.: 680x590x250 mm
Weight: 25 kg

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13 LUBRICANT RECUPERATORS

RM-60

RF-90

RA-90

DESCRIPTION	CODE
RM-60 · MOBILE LUBRICANT RECUPERATOR BY GRAVITY OF 60 LITRES	20474

Mobile drain unit for soils to recover the motor oils, the transmission oils and differential gear oils of the vehicles. The tank is equipped with a grille so as to avoid the reflux and drain the replaced filters.
- Capacity: 60 litres
- Grille
- 2 x Ø80 mm swivelling wheels
- 2 x Ø100 mm fixed wheels
- F3/4" drain valve

RM-120 + PNEUMATIC PUMP · 120-LITRE MOBILE RECUPERATOR + PUMP	20475

Model of 120 litres similar to the above one but including a pneumatic pump.

RF-90 · LUBRICANT RECUPERATOR OF 90-LITRE CAPACITY FOR INSPECTION PIT	20480

Drain unit for inspection pits in order to recover the oils of the vehicle motors, transmissions and differential gears. The tank is equipped with a grille so as to avoid the reflux and drain the replaced filters.
- Capacity: 90 litres
- Grille
- Adjustable supports (min. 800 mm - max. 1,200 mm)
- F3/4" drain valve

RA-90 · LUBRICANT RECUPERATOR BY GRAVITY	24010

90-litre lubricant recuperator by gravity to be used under vehicle elevators or an inspection pit. It is connected to an air inlet in order to discharge the kit. It has built in a funnel of 15 litres adjustable in height.

14 OIL EXTRACTORS

PNEUMATIC EXTRACTOR WITH OIL PAN · 90 LITRES	24012

90-litre pneumatic extractor for waste oil.
- Tank capacity: 90 litres
- Pre-chamber capacity: 10 litres
- Ergonomic funnel with 360º swivel
- Grille to drain the filters
- Pneumatic air empty (max. pressure: 0.5 bar)
- Equipped with 10 probes

Air pressure: 7.5 - 8 bar
Depressurisation time l/min: 2.5' - 3'
Max. suction capacity: 43-45 litres
Suction time with Ø6 and oil temperature at 60 - 80 °C: 1.5' - 2'
Suction hose length: 2 m

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: 92 W
- Voltage: 230 VAC 50 Hz single-phase
- Evacuation pressure: +3 bar
- Depression: -0.9/-0.6 bar
- Vacuum gauge
- 2m synthetic suction hose Ø9 x 18mm
- Suction probe-carrier with special adapter
- Exchangeable probes of 3, 5 and 6 mm
- 230 VAC electric connection cable
- In-line filter for the impurities
- Suction and/or pouring reversing switch
- 60-litre tank
- Wheels to make easier its transport

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION	CODE
SUPPLY PORTICO WITH 3 HOSE-REELS	22040

Compact kit ready for its direct installation, specially suitable for the installation that have buried their pipes.

Composed of: cased hose-reel + 10 m hose + PMGE-40 electronic nozzle-meter + drip pan + base to be directly anchored to the ground
- Made of metallic sheet
- Lateral where to place the pipes
- 1 hose-reel extension (maximum 2 hose-reels per portico)

SUPPLY PORTICO WITH 3 HOSE-REELS AND OWN CONSUMPTION CONTROLLER	22050

It is composed of:
- GK-7M · own consumption multihose controller
- Portico with 3 hose-reels with 10 m of hose
- 3 x MGI-40 pulsers
- 3 x 1/2" solenoid valves
- 3 x supply electronic displays

It allows the supply only to the authorized users through PIN code or magnetic key. PC connection. Data base with the supplies done by each user, type of lubricant, supplied litres, date and hour... SQL data base for its easy and quick connection to ERP systems or another management software.

PFP · PANEL TO FIX THE PNEUMATIC PUMPS AND/OR THE HOSE-REELS	20530

Special support to fix the pneumatic pumps and/or hose-reels (up to 4 units) anywhere in the workshop or the working zone, simplifying the installation. Wall-assembled

WORKBENCHES 16

ELECTRIC OR PNEUMATIC WORKBENCHES

Workbench with dispenser kit for two types of lubricant that allows the supply of both products from the same operation site.
Inner capacity for 2 drums of 200 litres.
Mobile transversal girder in order to easily place the drums.

Equipped with:
- 2 x hose-reels with 8 m R1 Ø1/2" hose with adapters in both ends
- 2 x PMGE-40 electronic nozzle-meters for the lubricant supply and measurement
- 2 x suction kits for 200-litre drums

BDE-400E

■ **BDE-400E (electric)**	20160

- 2 x EA-88 0.74 kW 230 VAC self-suction gear pumps
- 230 VAC cable

■ **BDN-400E (pneumatic)**	20170

- 2 x GM-3 pneumatic pumps · ratio 3:1
- 2 air regulators with built-in valve
- 2 x compressed air outlets
- It must be connected to a compressed air net.

■ **AH-1800 · Metallic tool cabinet**	701904058

Dim.: 1,800x207x750 mm
It includes supports.

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DESCRIPTION	CODE

PG-40

PG-40 · MANUAL SUPPLY NOZZLE without spout — 47352

Manual nozzle for the lubricant supply with hand protector, injected in high resistance plastic made of fibreglass and equipped with F1/2" GAS (BSP) and quick ACR exchange system of the different type of ends.
- Max. flow: 20 l/min (according to the pumping kit)
- Max. security pressure: 80 bar
- Max. working pressure: 50 bar

PMGE-40

PMGE-40 · ELECTRONIC NOZZLE-METER without spout — 47373-CF00000

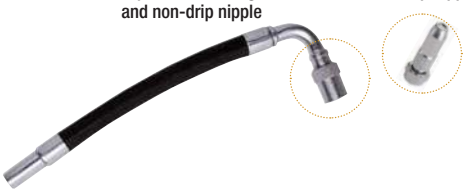
Ergonomic electronic nozzle-meter with hand protector, injected in high resistance plastic made of fibreglass and equipped with F1/2" GAS (BSP) and quick ACR exchange system of the different type of ends.
It avoids the accidental trigger opening.
Composed of:
- PG-40 supply nozzle
- MGE-40 electronic gear meter *(page 95)*
- Shock case made of flexible rubber in order to protect the display buttons.

90º rigid spout

60º rigid spout

Flexible spout with 90º rigid curve and non-drip nipple

Non-drip nipple



SPOUT TYPES

Quick exchange without threads

90º free flow rigid spout	473502003
Flexible spout with 90º rigid curve and non-drip nipple	473502005
60º rigid spout with non-drip nipple	473502002
Non-drip nipple	473002002
Flexible spout with 90º rigid curve and manual non-drip nipple	473502105
60º rigid spout with manual non-drip nipple	473502106
Manual non-drip nipple	473600000

PMGE-40
+ Flexible spout with 90º rigid curve and non-drip nipple

COMPLETE NOZZLE-METER

PMGE-40 + 90º free flow rigid spout	47410-CF00000
PMGE-40 + Flexible spout with 90º rigid curve and non-drip nipple	47410-CF00001
PMGE-40 + 60º rigid spout with non-drip nipple	47410-CF00002
PMGE-40 + Flexible spout with 90º rigid curve and manual non-drip nipple	47410-CF00003
PMGE-40 + 60º rigid spout with manual non-drip nipple	47410-CF00004

PG-40 + 90º rigid spout

COMPLETE MANUAL SUPPLY NOZZLE

PG-40 + 90º free flow rigid spout	47420
PG-40 + Flexible spout with 90º rigid curve and non-drip nipple	47421
PG-40 + 60º rigid spout with non-drip nipple	47422
PG-40 + Flexible spout with 90º rigid curve and manual non-drip nipple	47423
PG-40 + 60º rigid spout with manual non-drip nipple	47424

P-100

P-100 · MANUAL HIGH FLOW SUPPLY NOZZLE — 57 l/min — 474300000

- Flow: 57 l/min (lubricant up to SAE-140)
- Max. pressure: 103 bar
- Temperature: 70 ºC
- Connection: F3/4" BSP
- Flexible spout of 350 mm x Ø19 mm with manual nipple
- Trigger fixation

Weight: 2.2 kg

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DESCRIPTION	CODE

- Electronic meter with aluminium measuring chamber with high accuracy oval gears
- 5-digit display
- It saves the litres of the last service.
- Flow: from 2 to 40 l/min
- Max. pressure: 50 bar
- Min./max. temperature: -5 ºC / +60 ºC
- Accuracy: ±0.5 %
- It is suitable for the lubricant measuring up to SAE-140 density
- Feeding by button battery of long duration
- Low battery display
- It has calibration parameters and stored litre totalizer in a PERMANENT MEMORY.

2-40 l/min

±0.5%

MGE-40

mm (approx.) 85 × 85 × 60

kg (approx.) 0.5

MGE-40 · ELECTRONIC GEAR METER — 32350-CF00000

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

MGI-40

95 mm (approx.) 85

kg (approx.) 0.58

MGI-40 · PULSER — 32280

Pulser for its in-line assembly, making easier the exact information of the fluid management systems that there are in the market.
- Housing: aluminium · Cover: plastic
- Flow: 2-40 l/min
- Connection: F1/2"
- 78 pulses per litre and channel

HIGH FLOW METERS AND PULSERS (refer to *page 33 & 35*)

MGE-110
5-80 l/min

MGE-250
10-150 l/min

MGE-400
15-300 l/min

MGI-110
5-80 l/min

MGI-250
10-150 l/min

MGI-400
15-300 l/min

Approx. flow according to the type of lubricant

DISPLAY WITH HOSE MODULE 19

GE · DISPLAY WITH HOSE MODULE — 253400200

6-digit electronic console with luminous display of liquid crystal which allows to:

- See the partial and total of the supplied volume.
- Connect to different types of meters with pulsers of 1 or 2 channels.
- Preset the volume to be supplied, connecting it to a pump and/or solenoid valve.
- Connect it to an external switch or nozzle holder.
- Connect it to the GK-7M controller through the RS-485 communication bus and the GESPASA communication protocol.

- Keypad functions:
  TOTAL / EXIT: It shows the Total of the volume: By keeping pressed this key, the display shows the total of the supplied volume.
  Press "TOTAL" to cancel the volume preset.
  Key X10: It allows to preset. It increases 10 units each touch. When keeping pressed, it gets automatically increased.
  Key X1: It allows to preset. It increases 1 unit each touch. When keeping pressed, it gets automatically increased.

- If the volume is among 0.00 and 9999.99, two decimals are shown.
- If the volume is among 10000.0 and 99999.9, it only has one decimal.
- If the volume is equal to or higher than 100000, no decimal is shown.

GE

mm (approx.) 200 × 255 × 100

kg (approx.) 1.165

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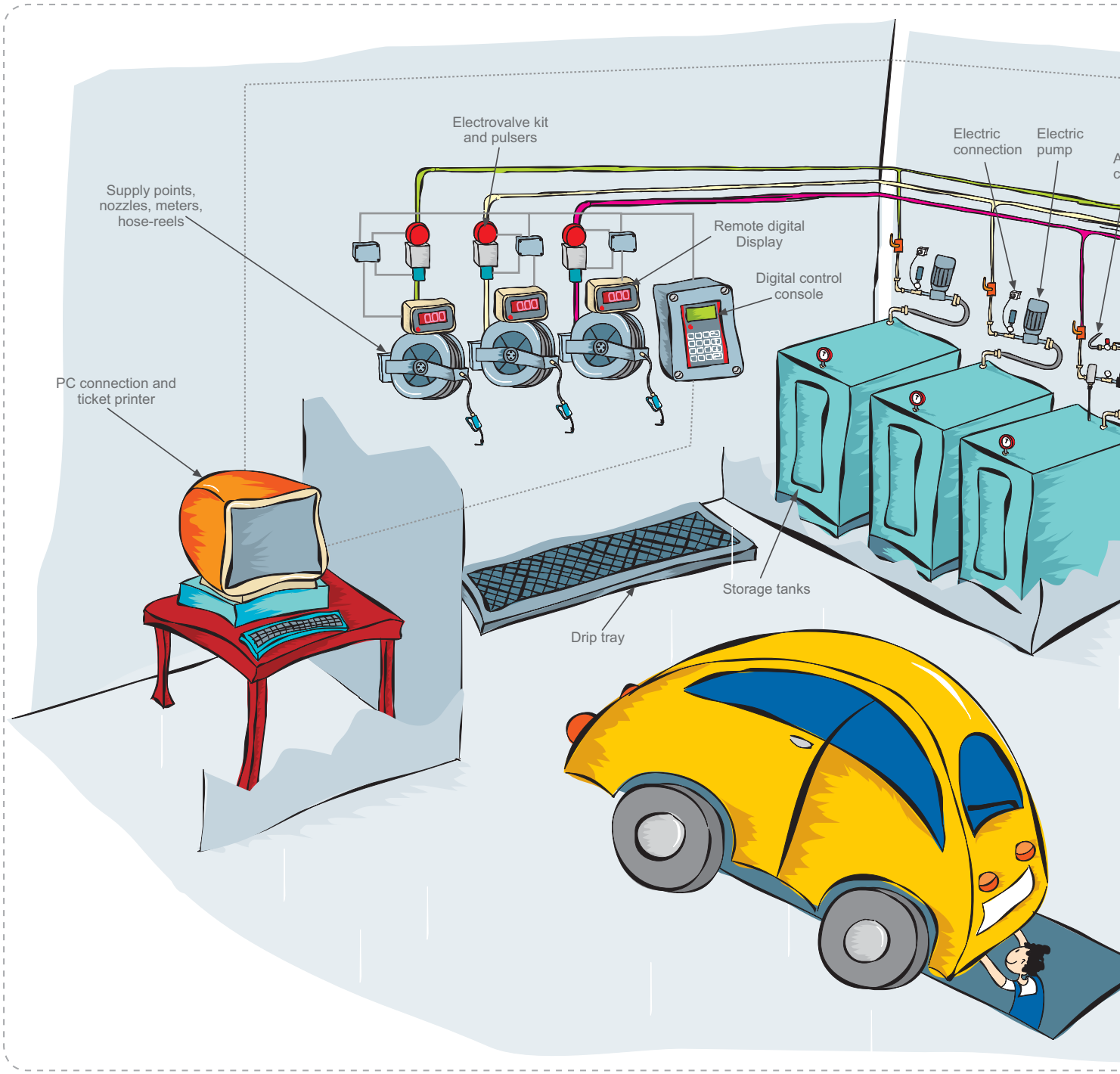

DESCRIPTION	CODE

GK-7M MULTIHOSE · 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 in order to optimize its output by a total control of all done operations.
It is required to connect a hose module for each hose or meter, where the meter, the solenoid valve, a display (if necessary) and another hose module are connected to.

Technical Data:
- Voltage: 110/230 VAC (optional 12/24 V)

The GK-7 digital console of fluid control offers:
- Access the system only to authorized personnel (personal codes, magnetic keys or cards)
- Memorizing of all the done operations
- PC connection: software that shows graphically all the done operations, use reports, product stock, product inputs.

■ **GK-7M · DIGITAL CONSOLE OF FLUID CONTROL** ***(page 40)***	252504000
■ **HOSE CONNECTION MODULE** *(It is required to install a hose module for each dispenser to be controlled)*	25680
■ **SUPPLY CONTROL SYSTEM**	25681
■ **ANTIFREEZE SUPPLY CONTROL SYSTEM**	252504005
■ **GK-7M ADJUSTABLE DISPLAY KIT**	
■ **COMMUNICATION KITS**	

**Refer to other possibilities and other communication systems of the GK-7 controller (page 39-46).*

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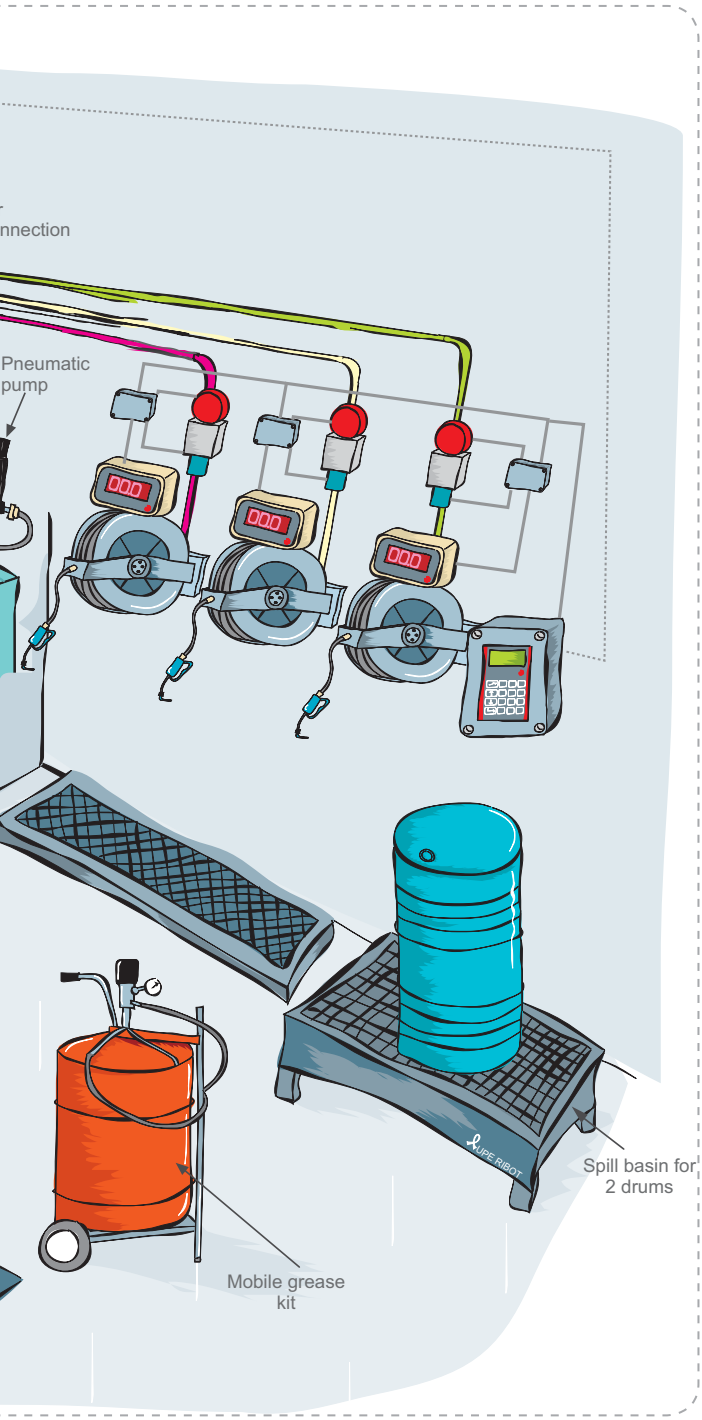
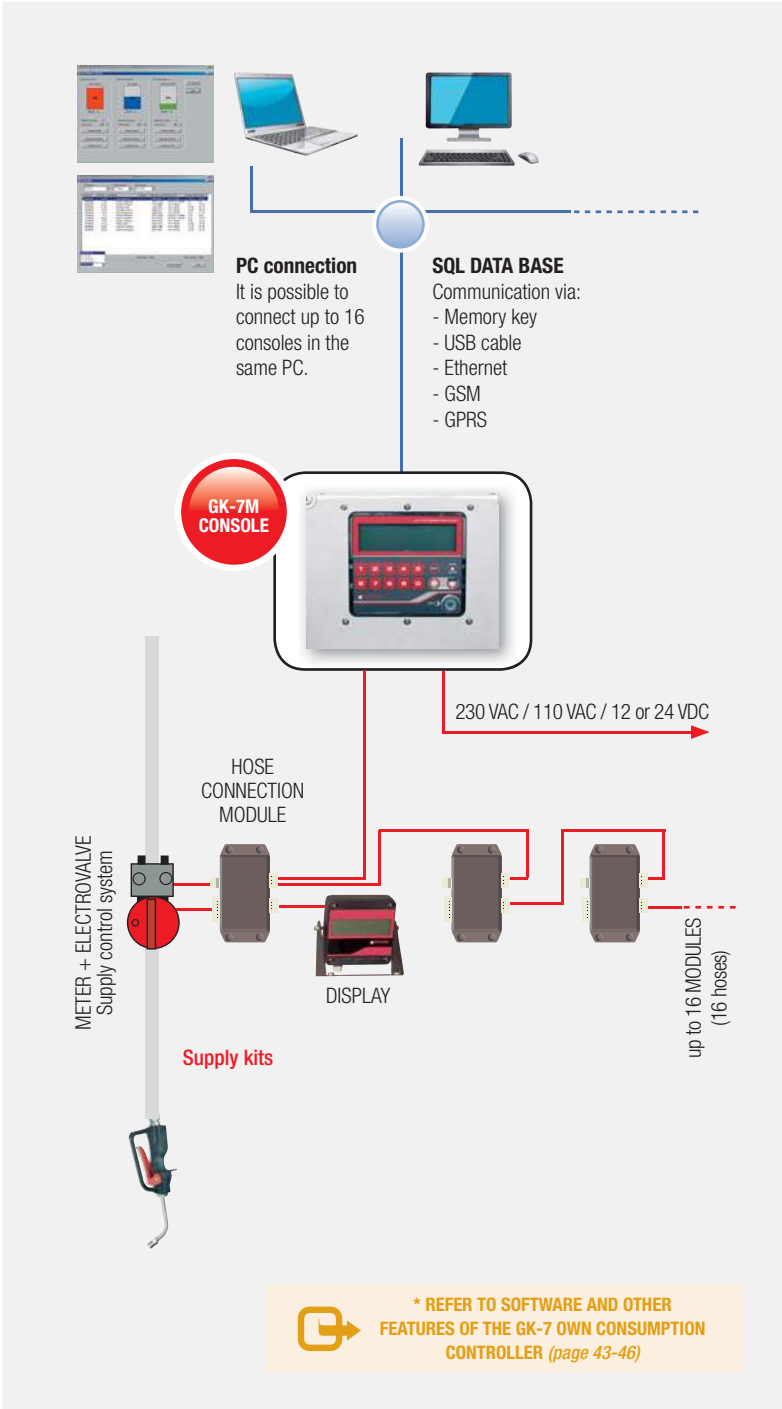




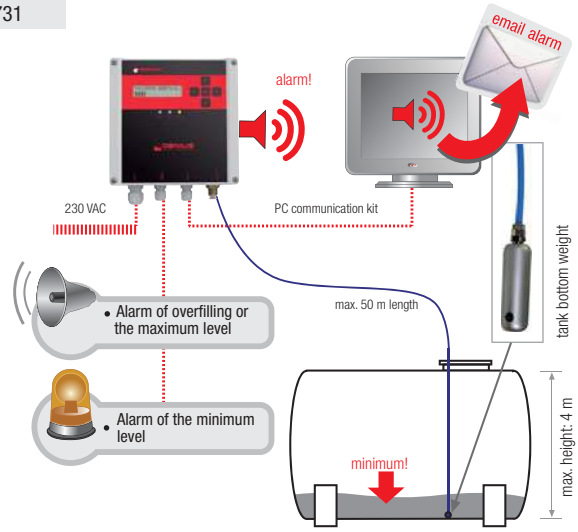
DESCRIPTION	CODE
GENIUS-LUBE · 230 VAC · LEVEL INDICATOR	25731

Gauge for the tank level reading:
- Reading in the display
- Reading from a local PC or at distance

mm (approx.) 185 / 160 / 60

kg (approx.) 2.50

Refer to features and PC communication kits (page 50-52)



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21 TANK

DESCRIPTION	CODE
DP-1000LX · 1,000-litre POLYTHENE TANK	37030

High density polythene tank of 1,000-litre capacity, with galvanized metallic frame and 4-inlet wood pallet
- It is suitable for mineral, agriculture, petrochemical and industrial oils.
- Ø150 filling hole with plug
- Emptying outlet with 50 mm ball valve

22 TANK ACCESSORIES

BUNG ADAPTER

BUNG ADAPTERS

Bung adapters with two threads: M-64x4 top 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 mm BUNG ADAPTER	805200001
2" x Ø28 mm BUNG ADAPTER	805200007

ADAPTER PLUG

4" F2" ADAPTER PLUG FOR 1,000-LITRE TANK — 805204004

- Plug to be assembled in the top hole of the DP-1000LX polythene tank
- F2" BSP thread

TAC

TAC-1000 · ADAPTER NUT TO THE 1,000-LITRE TANK — 807106003

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

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION CODE

23.1 TRANSPORT TROLLEYS

PUMP TROLLEY — 807900003

Trolley for pumps of different sizes.
- Platform size: 480x205 mm

Pump trolley

C-50 · 50-kg DRUM TROLLEY — 68610

Trolley for 50-60-kg drums for the lubrication and grease kits.
It is equipped with 2 Ø125x37 mm fixed wheels and 2 Ø60x24 mm rotary wheels.
It also has built in a support for the assembly of a pneumatic pump.

C-50

CE-200 · 185-kg DRUM TROLLEY FOR A HOSE-REEL — *686400100*

Transport trolley for 200-kg drums with an extra tubular frame
It is equipped with two fixed wheels and a mobile wheel for a better ergonomics and mobility.
The trolley has a security tape for the drum in order to avoid any accidental leak (drum not included).
It has built some hooks to reel the cable.
It also has built in a back platform for the assembly of a hose-reel.

CE-200

T-200 · 200-kg DRUM TRANSPORTER-ELEVATOR TROLLEY — 68650

Specially designed for transporting, raising and handling the drums.
- Capacity: 300 kg

T-200

- Comfortable and easy drum raising system with wheels for its transport

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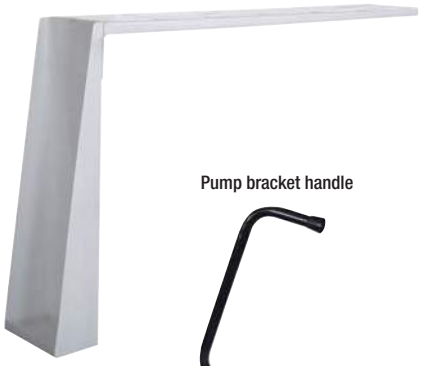
DESCRIPTION	CODE

23.2 SUPPORTS

Metallic protective holder



METALLIC PROTECTIVE HOLDER — 126801001

Metallic holder with drip tray to be installed on polyethylene tanks of 1,000 litres with metal tubular framework for all type of assemblies and pumping kits. It is also available made of galvanized steel. (Size: 170x1,105x605 mm)

Pump bracket handle

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

WALL OIL DRIPPING HOLDER — 24020

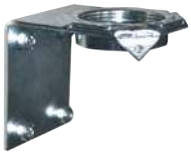
Metallic nozzle holder with drip tray. (Size: 150x150x600 mm)

Adjustable bracket for hose-reels

ADJUSTABLE BRACKET FOR HOSE-REELS — 24050

Adjustable zinc-plated wall bracket to move the hose-reel in the desired position.

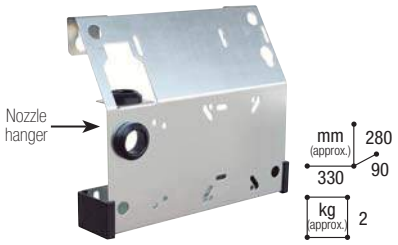
Pneumatic pump wall support



PNEUMATIC PUMP WALL SUPPORT — 800404020

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

Universal support



UNIVERSAL SUPPORT — 800404259

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 has a nozzle hanger with rubber protection and a drip tray.

Mixed wall non-drip support

MIXED WALL NON-DRIP SUPPORT — 800405007

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

Universal hook set

UNIVERSAL ZINC-PLATED HOOK SET — 800404049

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

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DESCRIPTION	CODE

SUCTION / DELIVERY HOSES

R1 SUCTION / DELIVERY HOSES SPECIAL FOR LUBRICANTS

• R1 Ø1/2" suction/delivery hose (m)	803401002
• R1 Ø3/4" suction/delivery hose (m)	803401008
• R1 Ø1" suction/delivery hose (m)	803406044
• 0.8 m R1 ØM1/2" suction/delivery hose with adapters in both ends	803406055
• 2 m R1 ØM1/2" suction/delivery hose with adapters in both ends	803406026
• 3 m R1 ØM1/2" suction/delivery hose with adapters in both ends	803406027
• 4 m R1 ØM1/2" suction/delivery hose with adapters in both ends	803406011
• 6 m R1 ØM1/2" suction/delivery hose with adapters in both ends	803406028
• 8 m R1 ØM1/2" suction/delivery hose with adapters in both ends	803406045
• 10 m R1 ØM1/2" suction/delivery hose with adapters in both ends	803406029
• 12 m R1 ØM1/2" suction/delivery hose with adapters in both ends	803406046
• 15 m R1 ØM1/2" suction/delivery hose with adapters in both ends	803406047
• 20 m R1 ØM1/2" suction/delivery hose with adapters in both ends	803406091
• 25 m R1 ØM1/2" suction/delivery hose with adapters in both ends	803406092

■ Optional:

• To put M1/2" adapters in the R1 hose both ends	670001008
• To put M3/4" adapters in the R1 hose both ends	670001009
• To put M1" adapters in the R1 hose both ends	670001012

R1 suction/delivery hose

SPRINGWEL BLACK SUCTION HOSES (m)

• Ø25 mm Springwel black suction hose	803400010
• Ø30 mm Springwel black suction hose	803400011
• Ø40 mm Springwel black suction hose	803400012

SPRINGWEL TRANSPARENT SUCTION HOSES (m)

• Ø20 mm Springwel transparent suction hose	803400005
• Ø25 mm Springwel transparent suction hose	803400001
• Ø30 mm Springwel transparent suction hose	803400003
• Ø40 mm Springwel transparent suction hose	803400002

Transparent and black suction hose

METALLIC TUBE SUCTION KIT WITH CHECK VALVE WITH FILTER + 3 m SUCTION HOSE

• Suction kit with check valve and 1" filter · height 1.35 m	35560
• Suction kit with check valve and 1" filter · height 1.65 m	35550
• Suction kit with check valve and 1" filter · height 1.90 m	35570
• Suction kit with check valve and 1 1/4" filter · height 1.65 m	35520
• Suction kit with check valve and 1 1/4" filter · height 1.90 m	35530
• Suction kit with check valve and 1" filter with adapter plug for 1,000-litre tanks + 1" quick switch (without hose)	35810

SUCTION KITS WITH METALLIC TUBE AND FILTER

• 1.40 m suction kit with 3/4" filter	35690
• 1.70 m suction kit with 3/4" filter	35670
• 1.40 m suction kit with 1" filter	35700
• 1.70 m suction kit with 1" filter	35680

Suction kit + check valve + filter

Suction kit with adapter plug for 1,000-litre tanks

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

GREASE

DESCRIPTION	CODE
MANUAL GREASE NOZZLES	
- Aluminium casting head with filling nipple and air release valve - Resistant follower spring - Big threads for a quick and easy load - It is available with 150-mm rigid tube of 6" or 12" or a 300-mm flexible hose and grease 4-jaw bushing with ball valve. - It is suitable for the use of the 400-cm³ grease cartridge or bulk filling of 500 or 1,000 g. - Working pressure: 690 bar · 10,000 PSI - Thickness: 1.2 mm	
■ **BEP-500R** of capacity 500 cm³ (with rigid nipple)	68140
■ **BEP-500F** of capacity 500 cm³ (with flexible nipple)	68130
■ **BEP-1000 BASIC** of capacity 1000 cm³	68290

DF-50 · HIGH PRESSURE PNEUMATIC GREASE NOZZLE	68460
- High pressure pneumatic grease nozzle of only one shot. It is designed with a grease cylinder in its top for an optimal balance. It is supplied with a 225 mm 9" rigid coupling and 4-jaw professional nipple. - Air-operated use with 400 g grease cartridge or bulk filling of 500 g. - Volume: 1 cm³ per stroke - Min./max. pressure: 3 / 8 bar · 40 / 120 PSI - Working pressure: 413 bar · 6,000 PSI - Ratio: 50:1	

MANUAL GREASE FILLING KITS	
- They are suitable for filling the manual grease pumps and nozzles. **Composed of:** Manual grease pump, follower plate, cover and 90º rigid connection with 9 mm adapter	
■ **EG-20 for 16-30-kg drums** · Weight: 5.75 kg · Dim.: 320x420x570 mm	68340
■ **EG-50 for 50-60-kg drums** · Weight: 10.7 kg · Dim.: 420x420x940 mm	68470

BEF-5 · MANUAL GREASE PUMP	68450
- Pump that works through foot pressure in the spring load system. - In one only load it supplies 30 shots of grease. - Aluminium casting - The high pressure adjustment supplies 0.45 g for each shot at 690 bar (10,000 PSI) - The high volume adjustment supplies 1.25 g per stroke - It is suitable for NLGI class 2 grease **Composed of:** - drum cover, follower plate, Ø1/2" high pressure hose, joined nozzle with steel extension and coupling, 5-kg plastic drum, 1.5 m hose	

EP-16 · PEDAL GREASE KIT	68310
- Pressure: 350-400 bar **Composed of:** - Small tank of 16 kg with wheels - Follower plate with spring - 2 m rubber hose - MF10x1 mm hammer lever - 200 mm rigid coupling and 4-jaw bushing	

MANUAL VALVOLINE NOZZLE	68200
- Heavy-duty nozzle designed to transfer gear oil, Valvoline and non-corrosive liquids - Plated-steel heading - Steel cylinder with powder-paint finish - It does not need to be primed. - Capacity: 500 ml	

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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 25 to 185 kg. It is suitable for mobile kits or fixed installations with a distribution outlet.
- Pressure Ratio: 60:1
- Air consumption: 130 l/min
- Maximum pressure: 8 bar
- Noise level: 76 dB
- Ø30 mm tube
- Air inlet thread: F1/4”
- Supply 1,600 g/min
- Grease outlet connection: M1/4”

GN-60/25

GN-55/200GC
GN-80/200GC

Pneumatic grease pumps

	Drum	Suction tube length	Weight (kg)	
■ **GN-60/25**	20-25 kg	480 mm	5.24	68510
■ **GN-60/50**	50 kg	750 mm	6.30	68520
■ **GN-60/200**	185 kg	950 mm	7.10	68530

High flow pneumatic grease pumps

	Drum	Suction tube length	Weight (kg)	
■ **GN-55/200GC**	185 kg	880 mm	7.5	68560
■ **GN-80/200GC**	185 kg	880 mm	8.5	68550

MOBILE GREASE KITS FOR DRUMS

Mobile grease kits for drums with capacity from 18 to 60 kg.
Composed of:
- GN-60 · ratio 60:1 · pneumatic grease pump
- Transport trolley with wheels
- Dust cover and follower plate
- 3 m R2 hose
- Nozzle with swivel joint
- Dust cover diameter: EMG-25 Ø320 mm · EMG-50 Ø400 mm
- Follower plate diameter: EMG-25 Ø310 mm · EMG-50 Ø370 mm

EMG-25
EMG-50

■ **EMG-25** · Mobile grease kit for 18-30-kg drum (Dim.: 430x600x960 mm)	68350
■ **EMG-50** · Mobile grease kit for 50-60-kg drum (Dim.: 500x620x1,100 mm)	68360

185-kg FIXED GREASE KITS

Grease kits for fixed or variable distances and to be assembled on a 185-kg drum.
Composed of:
- GN-60/200 · ratio 60:1 · pneumatic grease pump
- Quick coupling
- Adapter
- 6.5 m Ø1/4” high pressure flexible coupling
- Dust cover and follower plate
- PG-20 rigid grease nozzle with triple swivel adapter
- Pressure regulator

EFG-200E

■ **EFG-200** · Fixed grease kit for 185-kg drum	68400
■ **EFG-200E** · Fixed grease kit with hose-reel for 185-kg drum	68410

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION | CODE

3.1 GREASE BUSHINGS

SHARP END BUSHINGS

Sharp end bushing

- Minimum shipment of 12 units (EUR/unit)

■ **Normal SHARP END BUSHING**	680006100
■ **Special long SHARP END BUSHING**	680006101

ZERK BUSHING — 680006200

Zerk bushing

- Minimum shipment of 12 units (EUR/unit)

FLAT HEAD GREASE BUSHINGS

Flat head grease bushing

- Metallic grease bushing for flat head greasers
- Minimum shipment of 12 units (EUR/unit)

■ **FLAT HEAD BUSHING** for Ø16 mm greasers	680006300
■ **FLAT HEAD BUSHING** for Ø22 mm greasers	680006301

4-JAW GREASE BUSHING — 68240

4-jaw grease bushing

- The mechanized jaws press tightly the greaser.
- Strong body
- Max. working pressure: 650 bar (10000 PSI)
- F1/8” (BSP) thread

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

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DESCRIPTION	CODE

3.2 FLEXIBLE AND RIGID COUPLINGS

HIGH RESISTANCE FLEXIBLE COUPLINGS

- Breaking pressure: 1,650 bar
- Minimum shipment of 12 units (EUR/unit)

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

**The sizes correspond to the hose without ends.*

Flexible couplings

FLEXIBLE COUPLINGS

Flexible couplings suitable for the manual greasing. It has an inner metal braid.
- Operating pressure: 250 bar
- Breaking pressure: 1,000 bar
- Minimum shipment of 12 units (EUR/unit)

AF-300 300 mm flexible coupling without bushing	682100000
AF-300B 300 mm flexible coupling with hydraulic bushing	682100001
AF-340 340 mm flexible coupling without bushing	680006602
AF-340B 340 mm flexible coupling with hydraulic bushing	680006601
AF-400 400 mm flexible coupling without bushing	680006604
AF-400B 400 mm flexible coupling with hydraulic bushing	680006603
AF-500 500 mm flexible coupling without bushing	680006606
AF-500B 500 mm flexible coupling with hydraulic bushing	680006605
AF-2000 2,000 mm flexible coupling without bushing	680006609
AF-2000B 2,000 mm flexible coupling with hydraulic bushing	680006608

**The sizes correspond to the hose without ends.*

RIGID COUPLINGS

AR-100 Rigid coupling with anti-rust treatment without bushing	680006700
AR-100B Rigid coupling with hydraulic bushing	680006701

Rigid couplings

HIGH PRESSURE FLEXIBLE COUPLINGS

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

AFP-2 2.2 m Ø1/4" high pressure flexible coupling	680007005
AFP-4 4.5 m Ø1/4" high pressure flexible coupling	680007006
AFP-6 6.5 m Ø1/4" high pressure flexible coupling	680007000
AFP-8 8 m Ø1/4" high pressure flexible coupling	680007001
AFP-10 10 m Ø1/4" high pressure flexible coupling	680007002
AFP-12 12 m Ø1/4" high pressure flexible coupling	680007003
AFP-15 15 m Ø1/4" high pressure flexible coupling	680007004

High pressure flexible couplings

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

DESCRIPTION | CODE

3.3 GREASERS

CSE-485 · Greaser box

CSE-485 · GREASER BOX — 808700500

Box with 485 more usual greasers.

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-5 · THREAD GREASERS (EUR/unit)

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

E-10 · Greaser at pressure

E-10 · GREASERS AT PRESSURE (EUR/unit)

Pressure 6 mm	Box of 100 units (*minimum shipment)	808700301
Pressure 8 mm	Box of 100 units (*minimum shipment)	808700302
Pressure 10 mm	Box of 100 units (*minimum shipment)	808700303

E-20 · Long thread greaser

E-20 · LONG THREAD GREASERS (EUR/unit)

Thread 6-100	Box of 100 units (*minimum shipment)	808700401
Thread 1/4 SAE	Box of 100 units (*minimum shipment)	808700415

E-25 / E-30 · GREASERS (EUR / unit)

E-25 · 45º greaser

E-30 · 90º greaser

		E-25 · 45º greaser	E-30 · 90º greaser
Thread 6-100	*Box of 100 units	808700001	808700101
Thread 7-100	*Box of 100 units	808700002	808700102
Thread 8-100	*Box of 100 units	808700003	808700103
Thread 8-125	*Box of 100 units	808700004	808700104
Thread 10-100	*Box of 100 units	808700005	808700105
Thread 10-125	*Box of 100 units	808700006	808700106
Thread 10-150	*Box of 100 units	808700007	808700107
Thread 12-100	*Box of 50 units	808700008	808700108
Thread 12-125	*Box of 50 units	808700009	808700109
Thread 12-150	*Box of 50 units	808700010	808700110
Thread 12-175	*Box of 50 units	808700011	808700111
Thread 1/4W	*Box of 100 units	808700012	808700112
Thread 5/16W	*Box of 100 units	808700013	808700113
Thread 3/8W	*Box of 100 units	808700014	808700114
Thread 1/4 SAE	*Box of 100 units	808700015	808700115
Thread 5/16 SAE	*Box of 100 units	808700016	808700116
Thread 3/8 SAE	*Box of 100 units	808700017	808700117
Thread 1/8 GAS	*Box of 100 units	808700018	808700118
Thread 1/4 GAS	*Box of 100 units	808700019	808700119

**Minimum shipment box of 50 and 100 units*

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DESCRIPTION	CODE

3.4 DUST COVERS AND FOLLOWER PLATES

DUST COVERS

- The dust cover is designed to cover the grease drums and protect them from the dust and dirt.
- The cover has a hole where it is possible to fit a pneumatic pump or a suction hose.
- The product is equipped with 7 thumbscrews: 1 to adapt the top hole of the suction tube or hose and the other 6 screws (3 long and 3 short) to fix the cover to the drum.

Dust cover

■ **T-20**	365 mm for 20-25-kg drum	680006900
■ **T-50**	430 mm for 50-kg drum	680006901
■ **T-200**	600 mm for 200-kg drum	*680006903*

■ Placing of the dust cover and the follower plate

FOLLOWER PLATES

- The follower plate is placed into the drum, on the grease level.
- Its purpose is to make the grease level uniformly goes down, emptying the drum 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 drum walls and a handle for its easy handling.

Follower plate

■ **P-20**	Ø265-285 mm drum of 20 kg	680006800
■ **P-50**	Ø350-385 mm drum of 50 kg	680006801
■ **P-200**	Ø550-590 mm drum of 200 kg	*680006803*

GREASE NOZZLES

Metallic supply nozzle, made of steel, to be used on high pressure grease systems or kits.
The nozzle must be assembled along wit the rotary swivel to avoid twisting of the high pressure hose and to make the greasing point easier at any position.

PG-20

PG-25

■ **PG-20 · RIGID GREASE NOZZLE**	24040
■ **PG-25 · FLEXIBLE GREASE NOZZLE**	24030

RG-1 · ROTARY SWIVEL — 249900001

Swivel to eliminate the twisting of the high pressure hose.
- Thread MF1/4" GAS (BSP)

RG-1

RG-3

RG-3 · TRIPLE ROTARY SWIVEL — 249900002

Triple rotary swivel that it is advisable to connect to the grease gun to eliminate the twisting of the high pressure hose and make the greasing easier at any position.
- MF1/4" GAS (BSP) thread

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

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

OPEN HOSE-REEL FOR Ø1/4” GREASE HOSE (without hose)

■ **Capacity up to 15 m**	807302000

EG · Open hose-reel with hose

OPEN HOSE-REEL FOR Ø1/4” GREASE HOSE

Open hose-reels that have built in the R1 Ø1/4” grease hose

■ **EG-06** with 6 m Ø1/4” grease hose	807302002
■ **EG-08** with 8 m Ø1/4” grease hose	807302003
■ **EG-10** with 10 m Ø1/4” grease hose	807302001
■ **EG-12** with 12 m Ø1/4” grease hose	807302004
■ **EG-15** with 15 m Ø1/4” grease hose	807302105

CASED HOSE-REEL FOR Ø1/4” GREASE HOSE (without hose) — 807303000

High resistance cased hose-reel for Ø1/4” grease hose, including the adjustable bracket
- Capacity up to 15 m
- Resistance: 200 bar

EGC · Cased hose-reel

CASED HOSE-REEL FOR Ø1/4” GREASE HOSE

Cased hose-reels that have built in the R1 Ø1/4” grease hose and an adjustable bracket.

■ **EGC-06** with 6 m Ø1/4” grease hose with adjustable bracket	807303001
■ **EGC-08** with 8 m Ø1/4” grease hose with adjustable bracket	807303002
■ **EGC-10** with 10 m Ø1/4” grease hose with adjustable bracket	807303003
■ **EGC-12** with 12 m Ø1/4” grease hose with adjustable bracket	807303004
■ **EGC-15** with 15 m Ø1/4” grease hose with adjustable bracket	807303005

Adjustable bracket
for hose-reels

ADJUSTABLE BRACKET FOR HOSE-REELS — 24050

Adjustable zinc-plated wall bracket to move the hose-reel in the desired position.

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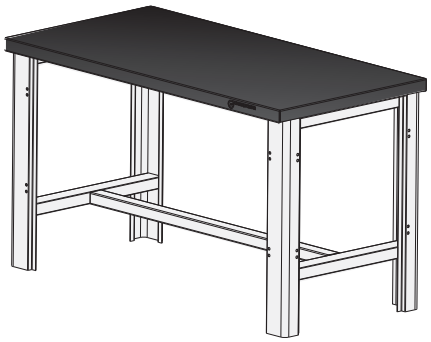
WORKSHOP EQUIPMENT

STANDARD WORKBENCH



BRICO-1400 · WORKBENCH + PANEL

METALLIC CABINET

The sheet turn part of the door is internally protected by the slot panel laterals.

UNIVERSAL SLOT PANEL

DESCRIPTION	CODE

STANDARD WORKBENCHES

- Modular workbenches available in three different sizes:

- Made of 1.5 and 2 mm DD-11 and DC-01 iron sheet.
- Powder-epoxi coating, kiln drying and with previous submerged part pickling, getting a high quality finish, both in flat surfaces and corners
- Detachable with an easy assembly
- When the user wants it can be enlarged according to their organization requirements.
- It is not necessary to drill the fixations or hinges. The interior of the table has built in the supports and slots to adapt the drawers.

■ **BM-1000** · 1,000 mm	70180
■ **BM-1500** · 1,500 mm	70190
■ **BM-1800** · 1,800 mm	70200

■ **Optional:**

- Drawer (530x640x180 mm)	701904063

BRICO-1400 · WORKBENCH + PANEL — 702600000

- DIY (do-it-yourself) WORKBENCH with a crossbar in its bottom. It has built in a wall slot panel for tool supports, being a good organizer without occupying much space in your workshop.
- Made of DD-11 and DC-01 iron sheet · Thickness: 1 mm the panel and the crossbar and 1.5 mm the table, the legs and the lateral crossbars.
- Powder-epoxy coating. Table and rung in MATT BLACK colour · Panel and legs in GREY colour.
- Easy assembly including the screws. It is not necessary to drill the fixations.
- The legs have a non-slip rubber stopper to avoid scratching the floor.
- It is supplied with 20 hooks.

METALLIC TOOL CABINET

- Three models:

■ **AH1000** · 1,000x207x750 mm · Supports included	701904056
■ **AH1500** · 1,500x207x750 mm · Supports included	701904057
■ **AH1800** · 1,800x207x750 mm · Supports included	701904058

- Made of 1 and 1.5 mm DD-11 and DC-01 iron sheet.
- 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.

UNIVERSAL SLOT PANELS

- Slot panels to hang on the wall. They are suitable to hang home and gardening tools...
- Available in horizontal or vertical format.

■ ▭ **Panel-H** · 1,000x500 mm	701904023
■ ▭ **Panel-H** · 1,000x800 mm	701904024
■ ▭ **Panel-H** · 1,500x800 mm	701904022
■ ▭ **Panel-H** · 1,800x800 mm	701904025
■ ▯ **Panel-V** · 500x1,500 mm	701904026
■ ▯ **Panel-V** · 800x1,500 mm	701904027
■ ▯ **Panel-V** · 500x1,800 mm	701904028
■ ▯ **Panel-V** · 800x1,800 mm	701904029

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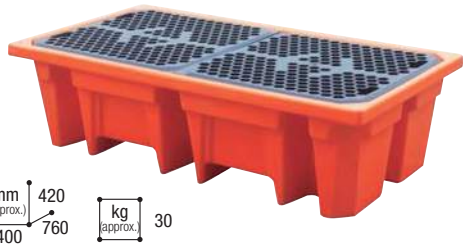
DESCRIPTION	CODE
DOUBLE RETENTION SPILL BASIN · 240 LITRES	385905021

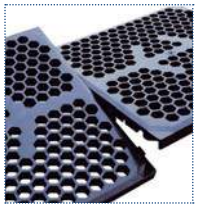
- They are essential to store lubricants, fuels, chemical and contaminant substances.
- These retention basins offer an easy and quick protection against spillages of the chemical or oily substances.
- Environment protection against spillages or leaks of the stored substance.
- Ribbed basins for a highest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

Double retention spill basin



mm (approx.) 420 × 760 × 1,400
kg (approx.) 30

Extractable grilles

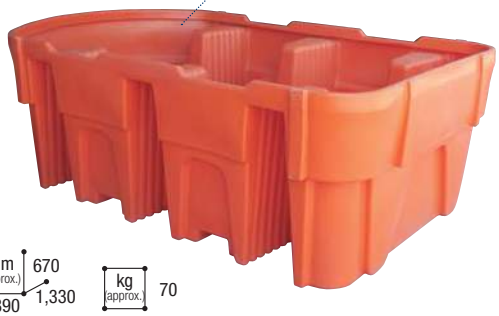


Retention basin

RETENTION BASIN · 1,050 LITRES	385905022

- Material: average density polythene with high structural and chemical resistance.
- 100 % recyclable
- It is adapted to put on it some products like GRG tanks and europallet tanks, i.e. IBC containers.
- Maximum allowable charge: 2 Tm
- Safe: The filling of the smaller recipients with stored substances is made in the basin limits.
- Sealing: It has no type of joints.
- Transport: Design for a easy handling with forklift.

1,050 litre retention basin



mm (approx.) 670 × 1,330 × 1,890
kg (approx.) 70

WASTE OIL TANKS 3

TAU · WASTE OIL TANKS

- Sure and efficient oil storage
- Material: Made of strong and lasting polythene. It maintains its colour. They are watertight and resistant to mechanical damages. They do not oxidise.
- Double skin: Protection against spillages
- They do not need retention basins or special couplings.
- Easy and secure use because of its metallic outlined bushing.
- Application: clean points, car parks, service stations, bus and truck parks, garages, freight platforms, ports, shipyards, dumps, industries etc
- Manufactured according to ISO 9001:200 FM no. 57348 regulation

Standard equipment:
- Oil inlet compatible with Camlock 2” coupling (direct connection to a tank)
- Leak Detector
- Maximum level warning
- Special funnel
  > Capacity up to 20 litres of oil
  > Metallic filter to avoid the waste inlet
  > Lock lid

TAU 200

mm (approx.) 1,250 × 760 × 760
kg (approx.) 34

TAU 600

mm (approx.) 1,300 × 850 × 1,440
kg (approx.) 96

TAU 1000

mm (approx.) 1,550 × 760 × 2,200
kg (approx.) 121

■ **TAU 200** · 200-litre capacity	38400
■ **TAU 600** · 600-litre capacity	38401
■ **TAU 1000** · 1,000-litre capacity	38402

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DESCRIPTION	CODE
AIR SPRAYER	

Autonomous portable air kit. It is suitable for automotive workshops and industry, where there is not available the connection to an air system or compressor.

IG-14 · AIR SPRAYER	24120

- Capacity of 14 litres
- Manometer 0-10 bar

IG-24 · PROFESSIONAL AIR SPRAYER	24110

- Capacity of 24 litres
- Manometer 0-10 bar
- EC approved
- It has 2 back wheels to make easier its transport.

NP-50 INOX · STAINLESS PRESSURE SPRAY-PRODUCER	24080

Mobile stainless pressure spray-producer suitable for automotive workshops and industry with a tank of 50-litre capacity.
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 10-litre capacity 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 10-litre capacity 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 built in a pressure regulator valve calibrated at 10 bar.

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

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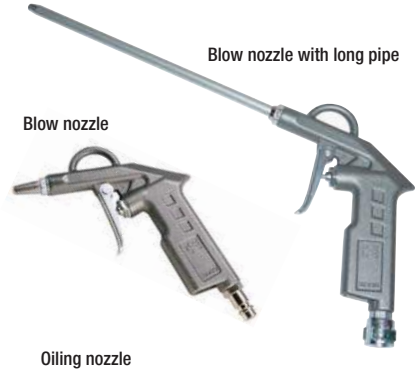
DESCRIPTION | CODE

5.1 COMPRESSED AIR NOZZLES



BLOW NOZZLE 68250

BLOW NOZZLE (LONG PIPE) 68270

OILING NOZZLE 68280

VERIFIER · SELF-ADJUSTING SPRAYER

- **VIA-10** from 0.5 to 10 bar — 20510
  Hand-operated pressure verifier.
  It has built in a pressure manometer with shockproof protection and self-adjusting nipple.
- **EURODAINU** from 0.7 to 12 bar — 20570
  Pressure gauge that works with the trigger emptying it through the drain button.
  High level of accuracy and resistance
  Approved according to the 86/217/EC Directive.
  It has built in a self-adjusting flexible nipple.

TYRE PRESSURE GAUGES

Gauges with a nipple suitable for the car and truck tyres.
Metered in bar and PSI.

- **MP-10** from 0.5 to 12 bar — 20520
- **EURODAIRA** from 0.7 to 12 bar — 20580

5.2 PRESSURE REGULATORS-LUBRIFIERS

RP-1 · PRESSURE REGULATOR 801902001

It keeps the air pressure selected from 0 to 12 bar, eliminating the overpressure risks. It has a regulation handle and an unblocking device. Pump inlet adapter with mains tap. This manometer is graduated in bar and PSI.
- MF1/4" connection

RLP-1 · REGULATOR - GREASER - PURIFIER 801902002

Regulator kit with filter and greaser combined.
Apart form the same features as the RP-1 pressure regulator, the in-line filters 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.

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5 COMPRESSED AIR ACCESSORIES

Open air/water hose-reel

Cased air/water hose-reel

DESCRIPTION	CODE

5.3 HOSE-REELS

OPEN AIR/WATER HOSE-REELS

Automatic air/water hose-reels with hose made of high resistance stainless steel.
It has a mobile arm and a device of quick hose collection, improving the operation site and its maintenance as the hose is always collected.
- Inlet thread: 3/8”
- Resistance: 30 bar
- It is suitable for automotive workshops and industry.

■ **EI-10** with 10 m Ø3/8” hose	807304001
■ **EI-15** with 15 m Ø3/8” hose	807304002

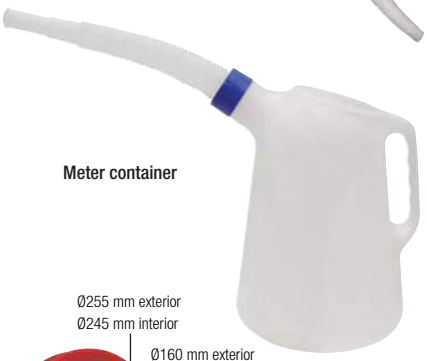
CASED AIR/WATER HOSE-REEL — 807304003

Automatic metallic air/water hose-reel of high corrosion resistance.
It has a device of quick hose collection, improving the operation site and its maintenance as the hose is always collected.
- Inlet thread: 1/4”
- Resistance: 20 bar
- It is suitable for automotive workshops and industry.

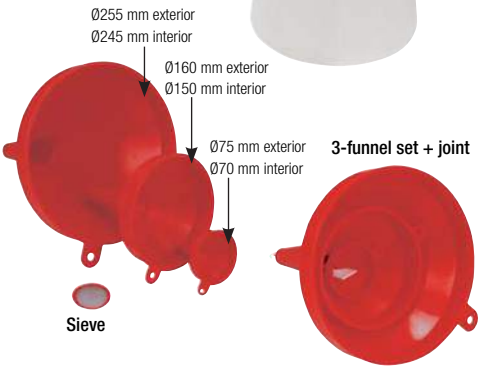
6 WORKSHOP ACCESSORIES

Steel oilcan

Spill funnel



Meter container



STEEL OILCAN — 68230

- Cylindrical oil tank
- Painted steel
- Oilcan volume: 500 cm³
- Dosing tube length: 175 mm

PLASTIC SPILL FUNNEL — 46080

- Heavy-duty polyethylene funnel with filter and flexible outlet
- Funnel of Ø225 mm

METER CONTAINER WITH FLEXIBLE DOSING TUBE — 38280

- Capacity: 5 litres

PLASTIC FUNNELS

Made of polypropylene, specially suitable for the hydrocarbon and chemical product handling (ask for other liquids).

■ **Ø255 mm exterior · Ø245 mm interior**	460000000
■ **Ø160 mm exterior · Ø150 mm interior**	460500000
■ **Ø75 mm exterior · Ø70 mm interior**	460100000
■ **Ø50 mm exterior · Ø40 mm interior · funnel sieve (Ø255 & 160 mm stainless mesh) of 350 µm (micron)**	460000001
■ **3-funnel joint**	469000000
■ **3-funnel set of different diameter with joint**	460700000

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VEHICLE DECONTAMINATION

1 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 their 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**
  5 units of mobile recuperation by gravity of 5 different liquids
- **PNEUMATIC EXTRACTOR**
  1 unit of pneumatic mobile extraction for brake fluid
  - Vacuum gauge
  - Exchangeable probes of 3, 5 and 6 mm

- **STORAGE**
  - 4 double skinned storage tanks (they do not need the retention basin).
  - 2 Metallic tanks (for petrol)

Ask for the most suitable tank according to the used product.

- **SUPPLY KIT**
  - Diesel or petrol pump with mechanical meter
  - Metallic base
  - Automatic nozzle
  - FG-100 or FG-100G (for petrol) microfilters of 2-litre capacity

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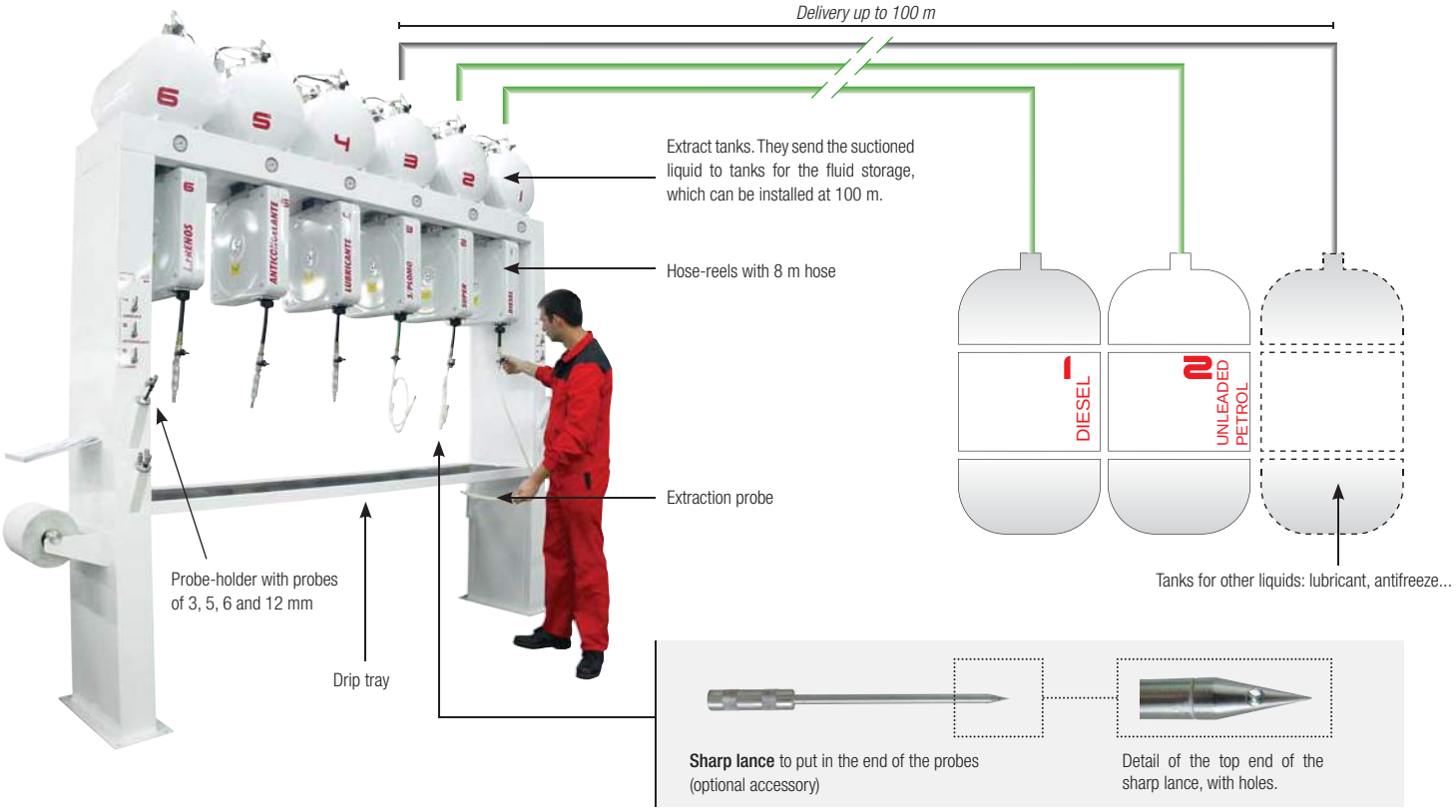
2 MODULAR SOLUTION:
VEHICLE DECONTAMINATION PORTICO

Vehicle decontamination portico that allows the fluid extraction of a vehicle through probes from 3 to 12 mm and posterior storage separately.
Customised installation of the number of liquids to be extracted.



EXTRACTOR PORTICO USE

PUT THE VEHICLE IN A BENCH OR AN ELEVATOR.

CONNECT THE HOSES IN EACH LIQUID OUTLET TO MAKE THE EXTRACTION

EXTRACTION
There are different ways of making the extraction of each type of liquid.

1 Fuel

A. Cut the fuel tube and connect it to the hose-reel hose directly.

B. Through the pneumatic drill nozzle (optional) connected to the suction hose, we punch the tank and directly suction the fuel.

- Once finished the suction, disconnect the probe and put it into the probe-holder.

2 Brake fluid

- Connect the probe in one of the back bleeder valves of the brake fluid circuit of the vehicle. Loosen the bleeder valve and open the hose suction valve.

3 Lubricant

A. Put the probe in the level bar hole. The lubricant will be directly suctioned.

B. Pick 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 Antifreeze

A. Pick up the antifreeze by gravity. It is directly suctioned from the recipient through the portico hose-reel probe.

B. Drill 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 the fluid must be sent to the storage tanks, turning the handle of the portico column to the emptying position.

Each suction hose has built in an in-line filter in order to avoid the inlet of solid particles in the kit that may reduce its output because of the hose blocking.

The liquid never flows through the inner of any pump or device, avoiding possible damages in the kit because of the impurity suction.

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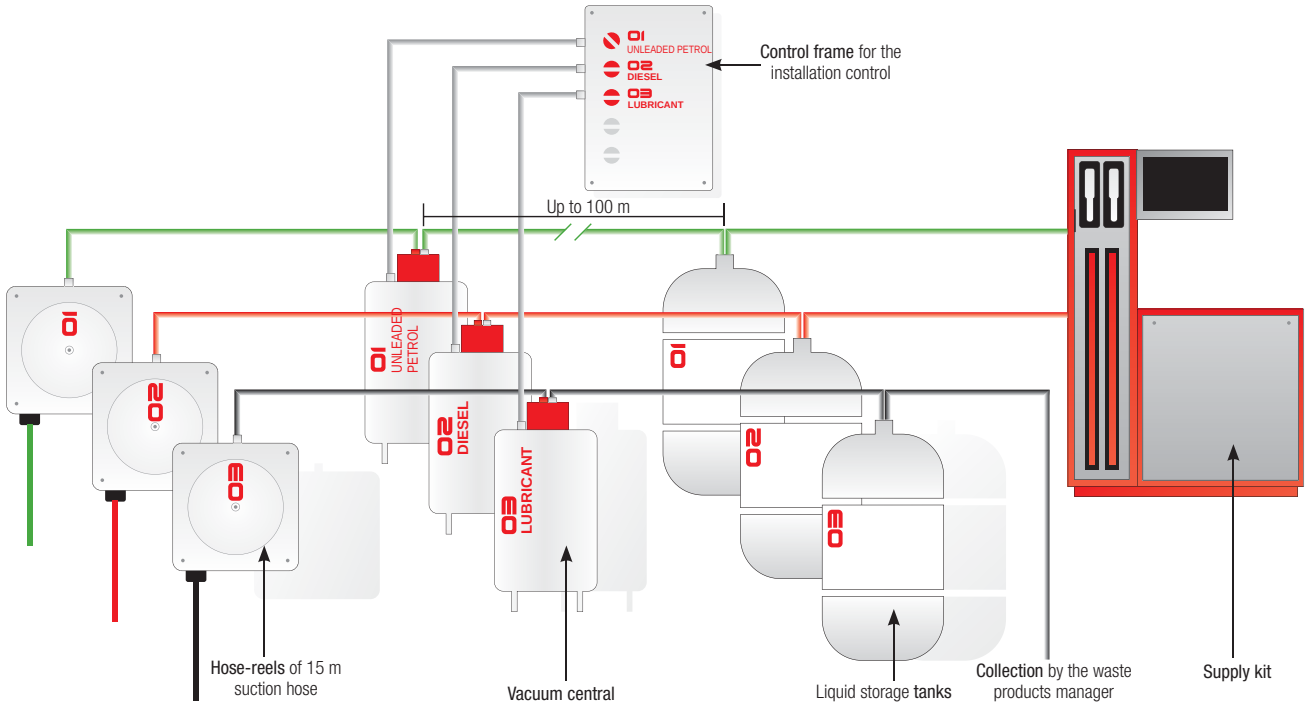
3 CUSTOMISED SOLUTION:
VEHICLE DECONTAMINATION INSTALLATION

Vehicle decontamination installation specially suitable for vehicle scrappings, to comply with the environmental rules about the fluid extraction and storage of the 2000/53/EC Directive 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 as well as its posterior storage and supply.

1 LIQUID EXTRACTION → 2 INSTALLATION CONTROL → 3 STORAGE → 4 REUSE / SUPPLY



CUSTOMISATION OF INSTALLATIONS

Because of the constant innovations and development, TOT COMERCIAL SA reserves the right to modify the specifications of its products and publicity, without prior notification.

INSTALLATIONS

- Design, installation and legalisation
- Oil installations
- Transfer, filtering, measurement and control of all type of fluids

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■ **CUSTOMISATION UNDER PROJECT OF THE EQUIPMENT OR INSTALLATION FOR THE TRANSFER, FILTERING, MEASUREMENT AND CONTROL OF ANY TYPE OF FLUIDS.**

FUEL 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 60 m² that delimits a workshop, an oil change zone, an office and a warehouse with equipment for the lubricant extraction and supply.

LUBRICATION VEHICLE

Personalized installation of kits for the lubricant transfer assembled into a van. It allows the lubricant, grease and air compressed supply through the hose-reels. The meter nozzles control the supplied amounts. It also allows the waste oil suction from a recuperator to a residual tank placed in a box of the van.

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По вопросам продаж и поддержки обращайтесь:

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