

VEHICLE MAINTENANCE

FLUID HANDLING EQUIPMENT



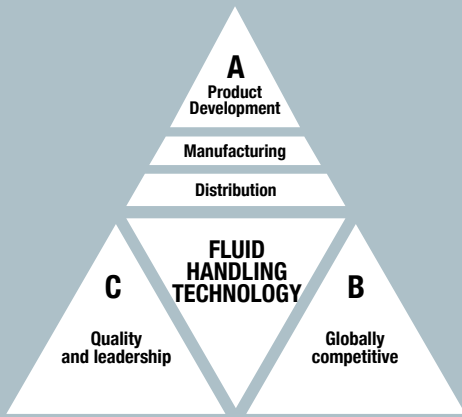
CONTROL MASTER®

PUMP MASTER®

REEL MASTER®

LUBE MASTER®

VAC MASTER®



Headquarters Offices and Technical Centre in Gijón (Spain)

SAMOA QUALITY AND LEADERSHIP

FLUID HANDLING TECHNOLOGY

SAMOA, a privately owned company, is a leading European manufacturer of Lubrication and Fluid Handling Equipment. SAMOA products are used for transfer, dispensing, dosing and recovery. SAMOA designs and manufactures a wide program that includes air operated piston and diaphragm pumps, volume flow meters, delivery guns, electronic components for inventory control systems, hose reels, hand pumps and accessories.

PRODUCT DEVELOPMENT

Product research and development is a fundamental part of SAMOA's philosophy. We are in permanent contact with the market to identify new customer needs, that we satisfy with product improvements and new products.

MANUFACTURING

SAMOA's headquarters have been in Gijón, on the Spanish North Coast, for over 55 years. SAMOA's manufacturing facilities are modern and are equipped with the latest state-of-the art production equipment and technology. We are committed to design and manufacturing excellence, environmental sustainability and a healthy and safe workplace; our work processes and facilities are consequently ISO 9001, ISO 14001 and OHSAS 18001 certified.

DISTRIBUTION

Our products are available through a network of knowledgeable distributors and owned Distribution Companies. This global network provides a sales and consulting service, to identify the products that best meet each customer's needs and, when required, offers after sales service to ensure the long and satisfactory use of our equipment.

GLOBALLY COMPETITIVE

Our continuous product improvement process ensures that our products meet customer requirements worldwide, even in the most demanding applications and environments. As a result, we are proud to say that SAMOA products are reliably working away, night and day, in more than 100 countries.



Research & Development and Manufacturing facilities in Gijón (Spain)



R&D

RESEARCH AND DEVELOPMENT

SAMOA's R&D Department is at the cutting edge of Lubrication Equipment and Fluid Handling product development programs with innovative technology concepts.

PRODUCT DESIGN & ENGINEERING

Product designs are created and rough product engineering is ensured by using 3D CAD. CAD-CAM manufacturing equipment dedicated to prototyping and a well equipped test laboratory, allow fast product evolution and the release of optimized and fully proven products to market.

MANUFACTURING

STATE OF THE ART MANUFACTURING

High volume CNC manufacturing equipment is fed by robots. The robotized material handling processes incorporate part cleaning and 100% automated part inspection.

Sheet metal processing is also highly automated and it includes welding robots, laser cutting and CNC bending machines among others.



COMPONENTS FINISHING

Once components are manufactured and passed inspection procedures, they are finished

before they are assembled into final products.

Products are polyester powder coated, zinc or nickel plated depending on their functionality and finishing requirements.



CUSTOMER SERVICE

RAPID AND RELIABLE ORDER FULFILMENT

SAMOA's experienced customer service staff and worldwide distributors can recommend the Lubrication Equipment System that best meets each application need.

A generous inventory of finished products and parts allows short delivery times. High rotation products are stored in an automated warehouse integrated with the ERP system.

Prompt after-sales service and immediate spare parts availability ensure a long and trouble-free product life.



UNWAVERING COMMITMENT TO QUALITY

Components are inspected during their manufacturing process following SPC standard and many sub-assemblies are 100% functionally tested. Many products, including all air operated pumps and meters, are run wet and taken through a carefully defined test procedure to ensure zero defects on shipment.

SAMOA PROVIDES EFFICIENT SOLUTIONS FOR VEHICLE SERVICE FACILITIES

SAMOA provides solutions for managing all fluids used in vehicle service facilities: lubricants, antifreeze and coolant solutions, windshield wash solutions, AdBlue® / DEF, etc. From single point dispense systems or mobile packages to the most sophisticated installations. Our solutions include all the necessary components for pumping, distributing, controlling and measuring all fluids in your facility.

CONTROL MASTER®

PUMP MASTER®

REEL MASTER®

LUBE MASTER®

VAC MASTER®

Inventory Management Control System

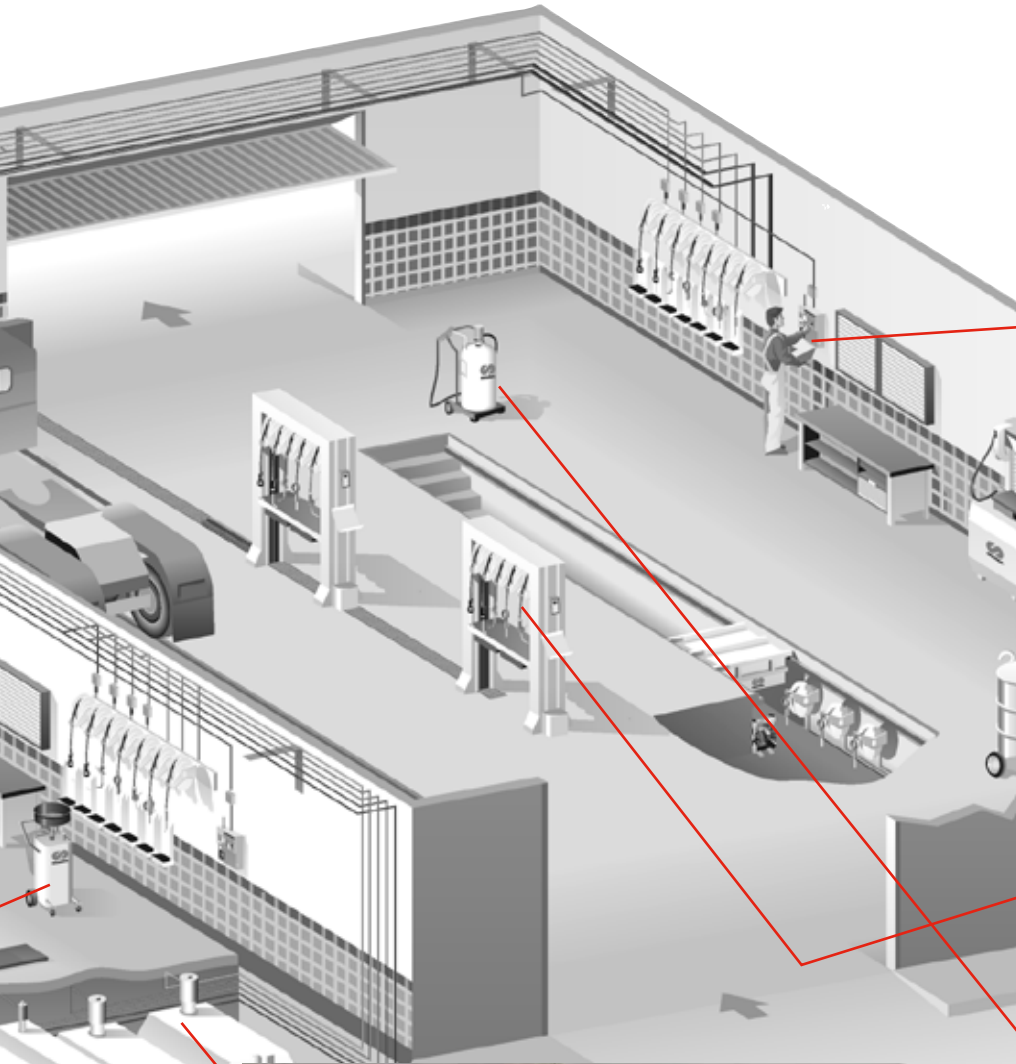


Control valves



Used fluid collectors

VEHICLE MAINTENANCE: CARS, TRUCKS, VANS AND BUSES



Inventory management Control System



Hose reels



Fluid dispensers



Pumps

INVENTORY MANAGEMENT CONTROL SYSTEM

CONTROL MASTER®

- > RECONCILE OIL PURCHASE, SALES AND CONSUMPTION
- > LOCATE ALL YOUR FLUID TRANSACTIONS
- > AVOID OIL DISAPPEARANCE
- > TOTAL CONTROL OF YOUR FLUID TRANSACTIONS



Inventory Management Control System that puts you in total control of the fluids used in your workshop.

CONTROL USED AND NEW FLUIDS



Lubricants - AdBlue® / DEF - Windshield wash - Coolants - Diesel - Grease

HARD WIRED SYSTEM

- > EFFICIENT, RELIABLE DATA AND POWER TRANSMISSION
- > NO INTERFERENCES
- > NO DROP OFFS



Can be **controlled** through a PC.

Possibility to **communicate** with the workshop data management system (**DMS**).

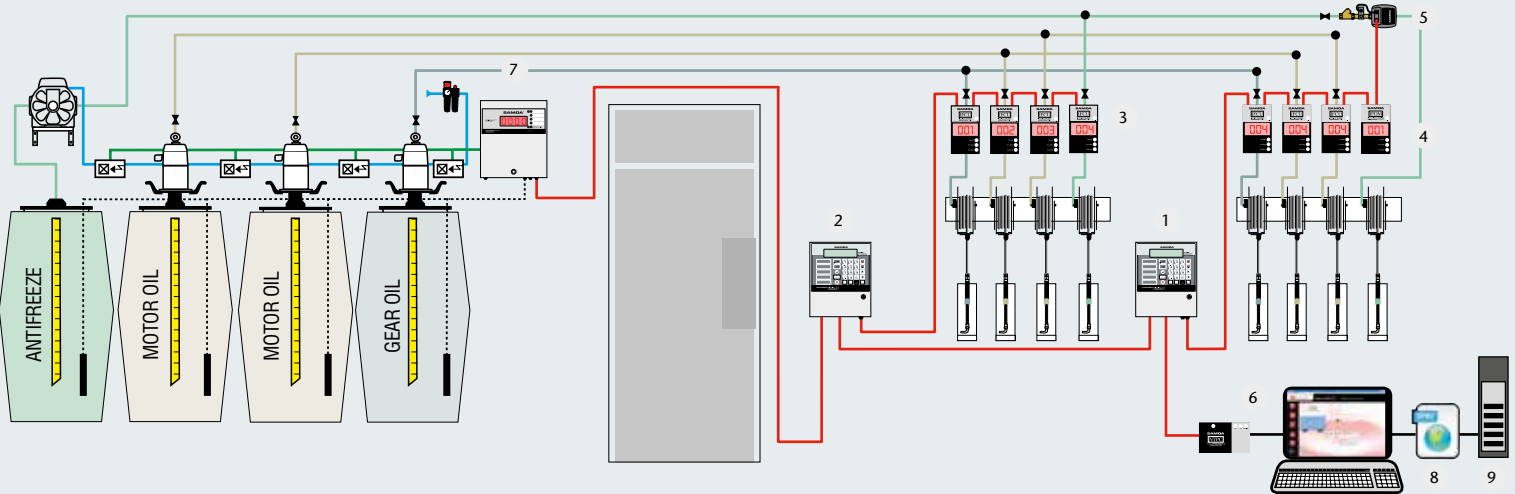
Can integrate an advanced **tank management system** (TRM or ATS)

Accurate, **real time control** of the inventories and automatic update.

For further information contact with our technical personnel or with our authorized distributors.

INVENTORY MANAGEMENT CONTROL SYSTEM

AMS + HD SAMOA PUMPS + RM HOSE REELS + PA/EC DISPENSE VALVES + OTHER EQUIPMENT
RELIABLE EQUIPMENT FOR THE PROFESSIONAL MANAGEMENT OF FLUIDS



- 1 AMS, access keypad with AMM, Application software memory module
- 2 AMS, access keypad without printer
- 3 IFCU, intelligent flow control unit
- 4 IFDM, intelligent fluid dispense manager
- 5 FCU, fluid control unit for fluids
- 6 NTPC, network protocol converter
- 7 TRM, tank room manager
- 8 ACP platform
- 9 DMS, data management systems server

**Profitability,
satisfies
everyone's
needs**



USER

- Guidance during the transaction.
- Identification by coded key.
- Multi-fluid delivery under one work order.
- Top up option on request.

SUPERVISOR

- Access to a wide variety of parameters to set up management criteria.
- Easy to use PC software.
- Modify operator authorizations.
- Adjust tank levels.
- Access to a wide range of statistics.

INSTALLER

- Easy to install and set up.
- Connected to the main electricity supply (115/230 VAC).
- AMS key pad provides electrical power up to 8 dispense points.
- Unlimited number of key pads.
- AMS can manage up to 100 outlets.

AIR OPERATED OIL PUMPS AND KITS

PUMP MASTER®

- > WIDE RANGE OF OIL PUMPS TO SELECT THE APPROPRIATE ONE FOR YOUR APPLICATION
- > CHOOSE THE RIGHT PUMP TO ENSURE A DURABLE AND RELIABLE SERVICE



Occasional-Duty Pumps



Standard-Duty Pumps



Heavy-Duty Pumps



Heavy-Duty Pumps



Heavy-Duty Pumps

PUMP MASTER 2 - 1:1	PUMP MASTER 4 - 3:1 PUMP MASTER 4 - 5:1	PUMP MASTER 35 - 5:1 PUMP MASTER 35 - 8:1	PUMP MASTER 45 - 3:1 PUMP MASTER 45 - 6:1 PUMP MASTER 45 - 10:1	PUMP MASTER 60 - 6:1 PUMP MASTER 60 - 12:1
Pump Master 2 - 1:1. Utility Transfer pump up to 30 m with 1 outlet, (no reels).	Pump Master 4 - 3:1. Up to 60 m with 1 - 2 outlets. Pump Master 4 - 5:1. Up to 150 m with 1 - 2 outlets.	Pump Master 35 - 5:1. Performance pump up to 150 m with 2 - 4 outlets. Pump Master 35 - 8:1. Pressure pump up to 200 m with 2 - 4 outlets.	Pump Master 45 - 3:1. Volume Transfer pump up to 75 m with 3 - 4 outlets. Pump Master 45 - 6:1. High Flow pump up to 160 m with 3 - 4 outlets. Pump Master 45 - 10:1. Pressure Flow pump up to 240 m with 3 - 4 outlets.	Pump Master 60 - 6:1. High Delivery pump up to 160 m with 3 - 4 outlets. Pump Master 60 - 12:1. High Performance pump up to 250 m with 3 - 4 outlets.



Oil transfer metered packages



Oil transfer metered mobile units



Oil transfer metered mobile units with hose reel



Tank mounted pump



AIR OPERATED OIL PUMPS

- Easy Maintenance
- Quiet
- Reduced air consumption
- State-of-the-art material
- Non icing
- Designed for long and reliable life

FLUIDS HANDLED

- Synthetic and mineral based lubricants
- Transmission fluid
- Hydraulic oil
- Gear oil

AIR OPERATED GREASE PUMPS AND KITS

PUMP MASTER®

- > WIDE RANGE OF GREASE PUMPS TO SELECT THE APPROPRIATE ONE FOR YOUR APPLICATION
- > CHOOSE THE RIGHT PUMP TO ENSURE A DURABLE AND RELIABLE SERVICE



Utility Pumps



Heavy-Duty Pumps



Heavy-Duty Pumps



Heavy-Duty Pumps

<p>PUMP MASTER 3 - 55:1</p>	<p>PUMP MASTER 35 - 60:1</p>	<p>PUMP MASTER 45 - 25:1 PUMP MASTER 45 - 40:1 PUMP MASTER 45 - 70:1</p>	<p>PUMP MASTER 60 - 12:1 PUMP MASTER 60 - 80:1</p>
<p>Pump Master 3 - 55:1 Utility High Pressure pump up to 50 m with 1 outlet (no reel)</p>	<p>Pump Master 35 - 60:1 Heavy-Duty High Pressure pump up to 75 m with 1 - 2 outlets</p>	<p>Pump Master 45 - 25:1 Heavy-Duty Pressure Transfer pump. Up to 75 m with 1 outlet (no reels).</p> <p>Pump Master 45 - 40:1 Heavy-Duty High Flow pump up to 125 m with 4 or more outlets.</p> <p>Pump Master 45 - 70:1 Heavy-Duty High Pressure pump up to 175 m with 4 or more outlets.</p>	<p>Pump Master 60 - 12:1 Heavy-Duty Volume Transfer pump up to 50 m with 1 outlet.</p> <p>Pump Master 60 - 80:1 Heavy-Duty High Performance pump up to 250 m with 4 or more outlets.</p>
<p>NLGI-2</p>	<p>NLGI-2</p>	<p>NLGI-1 / NLGI-2</p>	<p>NLGI-2</p>



Grease portable units



Grease mobile units





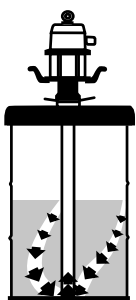
AIR OPERATED GREASE PUMPS

- Easy maintenance
- Quiet
- Reduced air consumption
- State of the art material
- Non icing
- Designed for long and reliable life

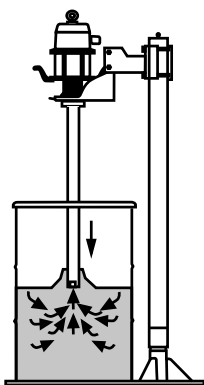
FLUIDS HANDLED

- High viscosity oil
- Grease up to NLGI-2

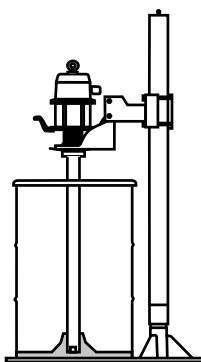
SAMOA OFFERS A COMPLETE RANGE OF ACCESSORIES



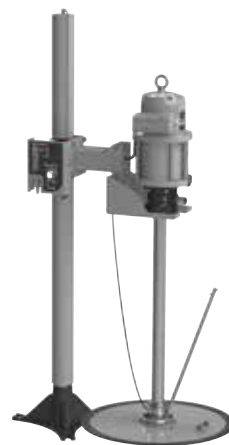
*No inductor.
Air pockets and channels
can be formed.*



*With inductor plate.
Pump is permanently primed.*



*Inductor plates aid to minimize
waste left in the drum.*



For more information, please see our General Catalogue.

AIR OPERATED DOUBLE DIAPHRAGM PUMPS



> WIDE RANGE OF DIAPHRAGM PUMPS FOR:

DISPENSING
TRANSFERRING
EVACUATING



DIFFERENT TYPES OF NEW AND USED FLUIDS

- Oils
- Antifreeze, coolant
- Windshield wash
- Hydraulic fluids
- Brake fluid
- Diesel
- Hydraulic fluid / Skydrol (airplane)
- AdBlue® / DEF
- Water
- Waste oil
- Waste antifreeze



Four way valves simplify plumbing and allow the use of one pump to pull and push waste fluids on/off their storage tank with the swing of a handle.

PLASTIC PUMPS



1/4"
20 l/min



1/2"
50 l/min



1"
100 l/min



1"
200 l/min

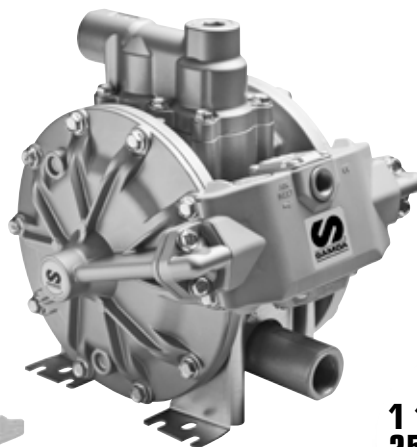
METAL PUMPS



1/2"
50 l/min



1"
100 l/min



1"
200 l/min



1 1/2"
250 l/min

INNOVATIVE CENTRAL FLOW TECHNOLOGY

Directflo® pumps are inside out pumps, the fluid is pumped through the centre of the pump and compressed air acts on the outside face of the diaphragms.

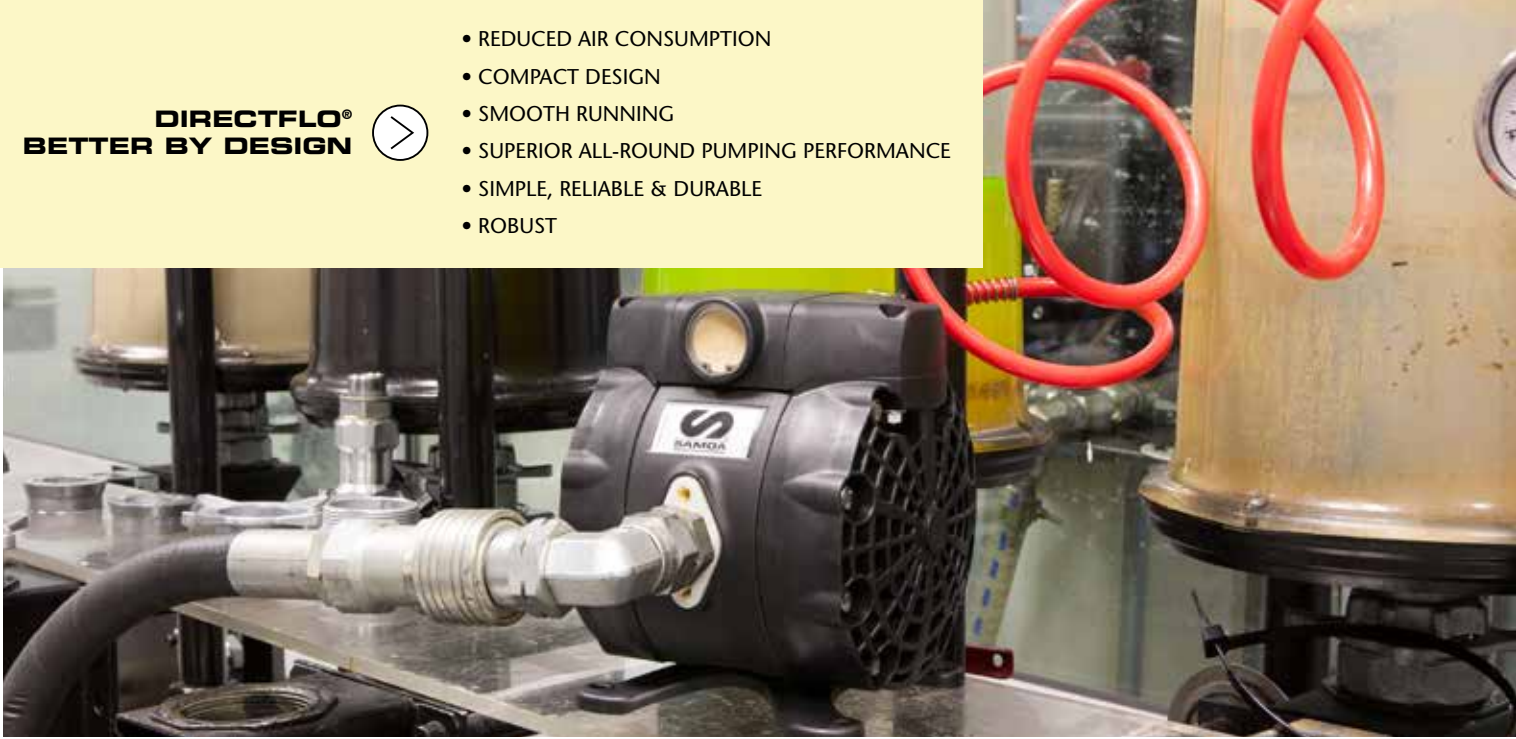
Important innovations were necessary to realise the central flow concept and, whilst developing.



**DIRECTFLO®
BETTER BY DESIGN**



- REDUCED AIR CONSUMPTION
- COMPACT DESIGN
- SMOOTH RUNNING
- SUPERIOR ALL-ROUND PUMPING PERFORMANCE
- SIMPLE, RELIABLE & DURABLE
- ROBUST



QUICK AND SIMPLE MAINTENANCE

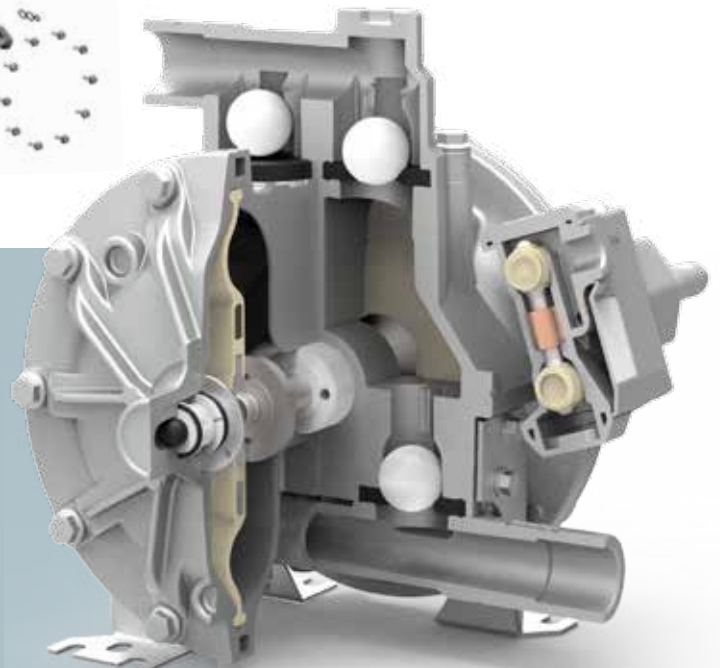


AIR OPERATED DOUBLE DIAPHRAGM PUMPS

- Easy maintenance
- Smooth running
- Reduced air consumption
- Superior pumping performance
- Simple - Reliable - Durable
- Robust

FLUIDS HANDLED

- Oils
- Antifreeze, coolant
- Windshield wash
- Hydraulic fluids
- Brake fluid
- Diesel
- AdBlue® / DEF
- Water
- Waste oil
- Waste antifreeze



HOSE REELS

- > PREMIUM QUALITY FLUID AND CABLE REELS
- > INCREASE PRODUCTIVITY AND SAFETY • INCREASE HOSE LIFE • SIMPLE HOSE HANDLING AND STORAGE • WORK ENVIRONMENT IMPROVEMENT



RM-12

Double pedestal hose reel.
Low, medium and high pressure fluids.
Up to 10 m x 1/2" hose.



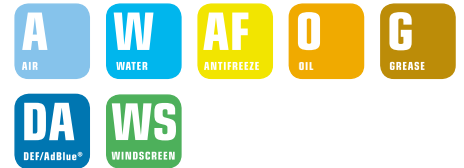
RM-12L

Heavy-Duty hose reel.
Low, medium and high pressure fluids.
Up to 15 m x 1/2" hose.



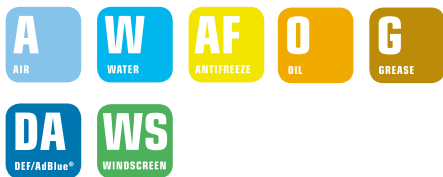
RM-12S

Single aluminium arm hose reel.
Low, medium and high pressure fluids.
Up to 15 m x 1/2" hose or 18 m with minimum 3 m hanging from reel.



RM-12CL

Individually enclosed hose reel.
Low, medium and high pressure fluids.
Up to 15 m x 1/2" hose or 18 m with minimum 3 m hanging from reel.



RM-34

Heavy-Duty high delivery hose reel.
Low, medium and high pressure fluids.
Up to 15 m x 3/4" hose or 20 m x 1/2" hose.



RM-100

Heavy-Duty large capacity hose reel.
Low and medium pressure fluids.
Up to 15 m x 1" hose or 30 m x 1/2" hose.





SAMOA offers a complete range of accessories for hose reel installations

RM-38

Compact hose reel.

Compressed air, nitrogen and water.

12 m x 10 mm hose or 15 m x 8 mm hose



HOSE REELS

- Superior power spring life and trouble free operation
- Heavy-Duty ratchet with user friendly operation
- Base, arm and metal spool polyester powder coated for increased wear resistance
- Lubricated ball bearings on spool

FLUIDS HANDLED

- Air
- Water
- Antifreeze
- Windshield wash
- Synthetic and mineral oil
- AdBlue® / DEF
- Waste oil
- Diesel
- Grease
- Hydraulic fluid

RM-POWER

Compact cable reel.

12 V DC, 24 V DC, 230 V or led lamp versions.

15 m hose.



CONTROL VALVES AND METERS

CONTROL MASTER®

> METERS AND CONTROL VALVES ENGINEERED FOR DURABILITY UNDER ALL CONDITIONS



CONTROL MASTER **EC30**

ELECTRONIC-METER CONTROL VALVE

For all types of lubricants and antifreeze.

30 l/min nominal flow rate.

In & outlet protectors.



CONTROL MASTER **PA40**

CONTROL VALVE

For all types of lubricants and antifreeze.

40 l/min nominal flow rate.

In & outlet protectors.



CONTROL MASTER **EC70**

HIGH-FLOW ELECTRONIC METER CONTROL VALVE

For all types of lubricants and antifreeze in high flow applications.

70 l/min nominal flow rate.



CONTROL MASTER **PA70**

HIGH-FLOW CONTROL VALVE

For all types of lubricants and antifreeze in high flow applications.

90 l/min nominal flow rate.



Several colour protectors available for fluid differentiation. For mounting at the EC30 and PA40 gun outlets.

CONTROL VALVES AND METERS

> METERS AND CONTROL VALVES ENGINEERED FOR DURABILITY UNDER ALL CONDITIONS

CONTROL MASTER®



CONTROL MASTER **PFC30** ELECTRONIC-METER CONTROL VALVE FOR WATER BASED FLUIDS

For water based fluids.
30 l/min nominal flow rate.
Outlet protector.



CONTROL MASTER **MC30** MECHANICAL-METERED CONTROL VALVE

For all types of lubricants and antifreeze.
Ideal for outdoor applications.
30 l/min nominal flow rate.
Inlet protector.



CONTROL MASTER **MP30** MECHANICAL-METERED PRESET CONTROL VALVE

For all types of lubricants. Ideal for outdoor applications. **30 l/min** nominal flow rate.
Inlet protector.



CONTROL MASTER **PG77** GREASE CONTROL VALVE



CONTROL VALVES AND METERS

- Extensively and rigorously field tested for reliable performance
- Designed for tough environments.
- High accuracy
- Ergonomic design
- Inlet filter with large screen surface
- Large selection of outlets available
- Easy to replace AAA alkaline batteries

FLUIDS HANDLED

- Oil
- Grease
- Coolant
- Antifreeze
- AdBlue® / DEF

WASTE FLUID MANAGEMENT

> RELIABLE AND EFFICIENT WASTE FLUID MANAGEMENT



VAC MASTER®

GRAVITY RECEIVERS

Waste fluid receiver units.



WASTE FLUID SUCTION UNITS

Combined waste fluid suction and receiver units.



MOTORBIKE GRAVITY RECEIVER

Motorbike waste oil receiver unit.



LOW LEVEL MOBILE DRAINERS

Low level waste oil mobile drainers.

For use with vans, trucks, buses, tractors and other big vehicles.



WASTE OIL MANAGEMENT

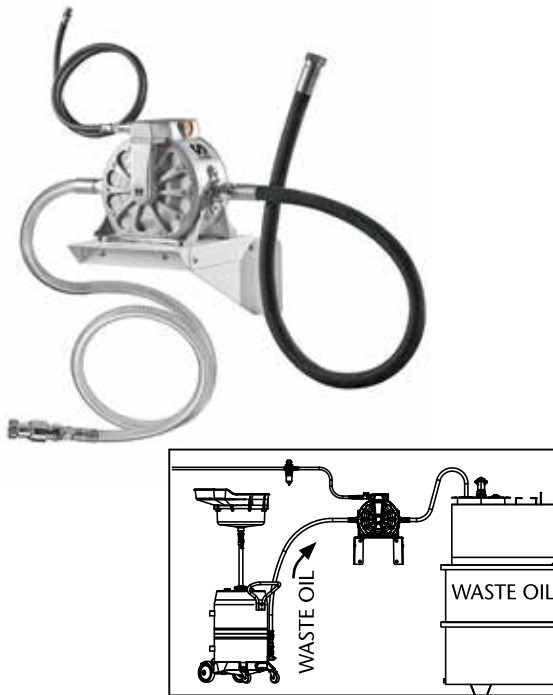
VAC MASTER®

> SAMOA OFFERS ALSO A RANGE OF WASTE OIL EVACUATION EQUIPMENT



WASTE OIL EVACUATION PUMP KITS

Directflo® double diaphragm pump kit for discharging waste oil drainers through a hydraulic coupler.



WASTE OIL EVACUATION PUMP KITS

PM2 piston pump kit for discharging waste oil drainers through a hydraulic coupler.



WASTE OIL DRAIN AND EVACUATION PUMP KITS

Directflo® double diaphragm pump kit for waste oil evacuation through a hydraulic coupler or cam-lock.



EVACUMASTER WASTE OIL SUCTION UNITS

Single point waste oil suction unit for collecting waste oil directly from the vehicle's engine.



MANUAL LUBRICATION AND AdBlue® / DEF EQUIPMENTS

- > SAMOA OFFERS A WIDE RANGE OF HAND OPERATED PRODUCTS TO SOLVE THE SIMPLEST NEEDS
- > SAMOA ALSO MANUFACTURES EQUIPMENTS FOR DISPENSING AND TRANSFERRING AdBlue® / DEF SOLUTIONS

LEVER ACTION DRUM PUMPS

O
OIL

AF
ANTIFREEZE

WS
WINDSCREEN



LEVER ACTION GREASE PUMPS

G
GREASE



BUCKET PUMPS

G
GREASE



AdBlue® / DEF MOBILE DISPENSERS

Pneumatic or electric pump versions available

DA
DEF/AdBlue®



AdBlue® / DEF PACKAGES

Several configurations available, pneumatic, electric, including hose reel, etc.

DA
DEF/AdBlue®



PART No.

OIL PUMPS	PM2 PUMPS				PM4 PUMPS				PM35 PUMPS	
PART No.	351 120	352 120	353 120	354 120	340 120	341 120	347 120	348 120	535 530	535 510
APPLICATION	Stub pump	205 l drum pump	Universal stub pump	205 l drum bung pump mounted	Stub pump	205 l drum pump	Stub pump	205 l drum pump	Universal stub pump	205 l drum bung mounted
PUMP TUBE HEIGHT	215 mm	915 mm	200 mm	905 mm	200 mm	910 mm	278 mm	915 mm	186 mm	910 mm
TOTAL HEIGHT	500 mm	1.200 mm	495 mm	1.200 mm	585 mm	1.295 mm	663 mm	1.300 mm	461 mm	1.185 mm
PUMP PRESSURE RATIO	1:1		3:1		3:1		5:1		5:1	
AIR PRESSURE OPERATING RANGE	1,5 - 10 bar		1,5 - 10 bar		1,5 - 10 bar		1,5 - 10 bar		2 to 12 bar	
AIR CONSUMPTION ⁽¹⁾	150 NI/min		180 NI/min		285 NI/min		400 NI/min		350 NI/min	
MAXIMUM FLUID OUTLET PRESSURE	10 bar		30 bar		30 bar		50 bar		60 bar	
AIR MOTOR DIAMETER	51 mm		51 mm		88 mm		88 mm		80 mm	
AIR MOTOR EFFECTIVE DIAMETER	35 mm		35 mm		60 mm		60 mm		80 mm	
AIR MOTOR STROKE	75 mm		75 mm		100 mm		100 mm		80 mm	
DELIVERY	20 l/min at 150 cpm		10 l/min at 200 cpm		10 l/min at 85 cpm		10 l/min at 125 cpm		12 l/min at 80 cpm	
MAXIMUM FREE FLOW DELIVERY ⁽²⁾	52 l/min		35 l/min		42 l/min		25 l/min		30 l/min	
AIR INLET	1/4" BSP (F)		1/4" BSP (F)		3/8" BSP (F)		3/8" NPSM		3/8" BSP (F)	
FLUID INLET (SHORT PUMP ONLY)	1" BSP (F)		3/4" BSP (F)		1" BSP (F)		1" BSP (F)		1 1/2" BSP (F)	
FLUID OUTLET	3/4" NPSM (F)		1/2" NPSM (F)		3/4" NPSM (F)		3/4" NPSM (F)		1/2" BSP (F)	
NOISE LEVEL ⁽³⁾	80 dB		80 dB		93 dB		95 dB		80 dB	

(1) Air consumption with 6 bar air inlet pressure and with PM2 - 1:1 150 cpm, PM2 - 3:1 200 cpm, PM4: 10 l/min and PM35 - 5:1: 80 cpm.

(2) Maximum free delivery at 7 bar (PM35 - 5:1 at 5 bar).

(3) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.

OIL PUMPS	PM35 PUMPS			PM45 PUMPS			PM60 PUMPS	
PART No.	535 830	535 810	536 330	536 630	536 030	536 010	537 630	537 130
APPLICATION	Stub pump	205 l drum bung mounted	Stub pump	Stub pump	Stub pump	205 l drum pump	Stub pump	Stub pump
PUMP TUBE HEIGHT	158 mm	910 mm	200 mm	200 mm	200 mm	855 mm	200 mm	200 mm
TOTAL HEIGHT	445 mm	1.169 mm	702 mm	702 mm	702 mm	1.357 mm	716 mm	716 mm
PUMP PRESSURE RATIO	8:1		3:1	6:1	10:1		6:1	12:1
AIR PRESSURE OPERATING RANGE	2 to 12 bar		1,5 to 12 bar	1,5 to 12 bar	1,5 to 12 bar		1,5 to 12 bar	1,5 to 12 bar
AIR CONSUMPTION ⁽¹⁾	350 NI/min		800 NI/min	830 NI/min	850 NI/min		1.100 NI/min	1.150 NI/min
MAXIMUM FLUID OUTLET PRESSURE	96 bar		36 bar	72 bar	120 bar		72 bar	144 bar
AIR MOTOR EFFECTIVE DIAMETER	80 mm		115 mm	115 mm	115 mm		150 mm	150 mm
AIR MOTOR STROKE	80 mm		100 mm	100 mm	100 mm		100 mm	100 mm
DELIVERY AT 80 CPM (PM60 AT 60 CPM)	7 l/min		45 l/min	25 l/min	15 l/min		35 l/min	20 l/min
MAXIMUM FREE FLOW DELIVERY	17 l/min		120 l/min	95 l/min	65 l/min		100 l/min	65 l/min
AIR INLET	3/8" BSP (F)		1/2" BSP (F)	1/2" BSP (F)	1/2" BSP (F)		1/2" BSP (F)	1/2" BSP (F)
FLUID INLET	1" BSP (F)		1 1/2" BSP (F)	1 1/2" BSP (F)	1 1/2" BSP (F)		1 1/2" BSP (F)	1 1/2" BSP (F)
FLUID OUTLET	1/2" BSP (F)		3/4" BSP (F)	3/4" BSP (F)	3/4" BSP (F)		3/4" BSP (F)	3/4" BSP (F)
NOISE LEVEL ⁽²⁾	80 dB		80 dB	80 dB	80 dB		80 dB	80 dB

(1) Maximum air consumption with 5 bar air inlet pressure and 80 cpm (PM60: 60 cpm).

(2) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.

OIL PUMP KITS				
PART No.	DESCRIPTION	HOSE	DELIVERY GUN	APPROX. DELIVERY
454 110	3:1 transfer metered package	3 m x 1/2" (362 103)	Hose end meter 365 535	12 l/min
454 111	3:1 transfer package	3 m x 1/2" (362 103)	Oil control gun 363 115	15 l/min
454 100	Transfer pump with spigot valve	-	Oil spigot valve 361 100 and tray 736 462	23 l/min
454 150	3:1 transfer pump + IBC side bracket ⁽²⁾	6 m x 1/2" (362 106)	Hose end meter 365 535	12 l/min

OIL MOBILE UNITS						
PART No.	APPLICATION	PUMP	HOSE END METER	DELIVERY HOSE	TROLLEY	OTHER ACCESSORIES
370 400	50 l drum	358 120	365 535	3 m x 1/2" 362 103	431 000	Drum cover 418 010
328 010	Self contained, 70 l	358 120	365 535	3 m x 1/2" 362 103	373 310	Self contained 70 l tank
376 300	205 l drum	354 120	365 535	3 m x 1/2" 362 103	432 000	-
376 610	205 l drum	353 120	365 535	3 m x 1/2" 362 103	432 814	Suction hose 367 011
378 120	205 l drum	353 120	365 535	10 m reel 506 202	432 814	Suction hose 367 011

PART No.

GREASE PUMPS	PM3 PUMPS				PM35 PUMPS		
PART No.	404 100	405 100	407 200	409 200	530 610	530 620	530 630
APPLICATION	12,5 - 20 kg pails	50 kg drums	50 kg drums	185 kg drums	185 kg drum	50 kg drum	12,5 - 20 kg pails
PUMP TUBE HEIGHT	410 mm	510 mm	725 mm	920 mm	925 mm	730 mm	516 mm
TOTAL HEIGHT	650 mm	710 mm	925 mm	1.120 mm	1.212 mm	1.017 mm	803 mm
PUMP PRESSURE RATIO	55:1				60:1		
AIR PRESSURE OPERATING RANGE	1,5 to 10 bar				2 to 10 bar		
AIR CONSUMPTION ⁽¹⁾	165 NI/min				450 NI/min		
MAXIMUM FLUID OUTLET PRESSURE	550 bar				600 bar		
AIR MOTOR DIAMETER	70 mm				80 mm		
AIR MOTOR STROKE	35 mm				80 mm		
DELIVERY	300 g/min at 110 cpm				900 g/min at 80 cpm		
MAXIMUM FREE FLOW DELIVERY ⁽²⁾	540 g/min				2 kg/min		
AIR INLET	1/4" NPSM (F)				3/8" BSP (F)		
FLUID OUTLET	1/4" NPSM (F)				3/8" BSP (F)		
NOISE LEVEL ⁽³⁾	92 dB				80 dB		

(1) Maximum air consumption with 6 bar air inlet pressure, NLGI-2 grease at 20 °C and 100 cpm. (PM35, 5 bar and 80 cpm).

(2) Maximum free delivery at 7 bar. NLGI-2 grease.

(3) Maximum noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.

GREASE PUMPS	PM45 PUMPS						
PART No.	531 210	531 410	531 420	531 430*	531 710	531 720	531 730*
APPLICATION	185 kg drum	185 kg drum	50 kg drum	Bulk tote	185 kg drum	50 kg drum	Bulk tote
PUMP TUBE HEIGHT	855 mm	855 mm	650 mm	490 mm	855 mm	650 mm	490 mm
TOTAL HEIGHT	1.357 mm	1.357 mm	1.152 mm	992 mm	1.357 mm	1.152 mm	992 mm
PUMP PRESSURE RATIO	25:1		40:1		70:1		
CONTINUOUS DUTY FLOW RATE	6 kg/min		3,5 kg/min		2 kg/min		
MAXIMUM FREE FLOW	16 kg/min		11 kg/min		7,5 kg/min		
AIR PRESSURE OPERATING RANGE	1,5 to 14 bar		1,5 to 14 bar		1,5 to 7 bar		
MAXIMUM OUTLET PRESSURE	350 bar		560 bar		490 bar		
AIR MOTOR EFFECTIVE DIAMETER	115 mm		115 mm		115 mm		
AIR MOTOR STROKE	100 mm		100 mm		100 mm		
AIR CONSUMPTION ⁽¹⁾	1.340 NI/min		750 NI/min		925 NI/min		
AIR INLET	1/2" BSP (F)		1/2" BSP (F)		1/2" BSP (F)		
FLUID OUTLET	1/2" BSP (F)		1/2" BSP (F)		1/2" BSP (F)		
NOISE LEVEL ⁽²⁾	80 dB		80 dB		80 dB		

GREASE PUMPS	PM60 PUMPS		
PART No.	532 130*	532 810	532 820
APPLICATION	Bulk tote	185 kg drum	50 kg drum
PUMP TUBE HEIGHT	226 mm	855 mm	650 mm
TOTAL HEIGHT	742 mm	1.371 mm	1.166 mm
PUMP PRESSURE RATIO	12:1		80:1
CONTINUOUS DUTY FLOW RATE	15 kg/min		2,5 kg/min
MAXIMUM FREE FLOW	40 kg/min		8 kg/min
AIR PRESSURE OPERATING RANGE	1,5 to 7 bar		1.5 to 7 bar
MAXIMUM OUTLET PRESSURE	84 bar		560 bar
AIR MOTOR EFFECTIVE DIAMETER	150 mm		150 mm
AIR MOTOR STROKE	100 mm		100 mm
AIR CONSUMPTION ⁽¹⁾	1.100 NI/min		1.000 NI/min
AIR INLET	1/2" BSP (F)		1/2" BSP (F)
FLUID OUTLET	1" BSP (F)		1/2" BSP (F)
NOISE LEVEL ⁽²⁾	80 dB		80 dB

(1) Air consumption at 5 bar air pressure, NLGI-2 grease (PM45 25-1: NLGI-0) at 20 °C and 80 cpm (PM60 at 60 cpm).

(2) Noise level measured at 1 m from the pump, 7 bar air pressure and free delivery.

* Includes adaptor 753 110 to fit a 3" cam-lock connector for use in totes and grease bags.

GREASE PUMP KITS							
PART No.	APPLICATION	PUMP	DRUM COVER	FOLLOWER PLATE	DELIVERY HOSE	GREASE GUN WITH Z-SWIVEL	TROLLEY
424 150	Mobile unit, 12.5 to 18 kg ⁽¹⁾	404 100	418 013	-	2 m x 1/4" 412 102	413 080	430 000
424 152	Mobile unit, 20 kg ⁽¹⁾	404 100	418 002	-	2 m x 1/4" 412 102	413 080	430 000
424 170	Portable unit, 12.5 to 18 kg ⁽¹⁾	404 100	418 013	-	2 m x 1/4" 412 102	413 080	-
424 170.800	Portable unit, 12.5 to 18 kg ⁽¹⁾	404 100	418 013	417 001	2 m x 1/4" 412 102	413 080	-
424 172	Portable unit, 20 kg ⁽¹⁾	404 100	418 002	-	2 m x 1/4" 412 102	413 080	-
424 172.710	Portable unit, 20 kg ⁽¹⁾	404 100	418 002	417 001	2 m x 1/4" 412 102	413 080	-
482 200	Mobile unit, 12.5 to 20 kg ⁽²⁾	404 100	-	-	2 m x 1/4" 412 102	413 080	480 021
425 150	Mobile unit, 50 kg drum	407 200	418 004	-	3 m x 1/4" 412 103	413 080	431 000




PART No.

GREASE PUMP KITS							
PART No.	APPLICATION	PUMP	DRUM COVER	FOLLOWER PLATE	DELIVERY HOSE	GREASE GUN WITH Z-SWIVEL	TROLLEY
425 150.002	Mobile unit, 50 kg drum	407 200	418 004	417 002	3 m x 1/4" 412 103	413 080	431 000
425 290	Mobile unit, 50 kg drum	407 200	418 004	-	2 m x 1/4" 412 102	413 080	430 000
482 500	Mobile unit, 50 kg drum (3)	407 200	-	-	3 m x 1/4" 412 103	413 080	480 050
428 243	Mobile unit, 185 kg drum	409 200	418 006	417 004	4 m x 1/4" 412 104	413 080	432 000
428 262	Stationary unit, 185 kg drum	409 200	418 006	417 004	4 m x 1/4" 412 104	413 080	-

(1) Includes carrying handle 741 602.

(2) Shielded unit. Includes base with 4 castors.

(3) Shielded unit. Includes base with 2 wheels and 2 castors.

DOUBLE DIAPHRAGM PUMPS, DIRECTFLO® PLASTIC SERIES										
PUMP SIZE	DC20	DF30	DF30T	DF50	DF50T	DF100	DP200			
PART No.	556 115	553 164	553 162	553 124	552 164	552 162	552 124	551 164	551 162	555 115
PUMP PRESSURE RATIO	1:1	1:1		1:1		1:1		1:1		1:1
MAXIMUM FREE DELIVERY ⁽¹⁾	20 l/min	38 l/min	38 l/min	38 l/min	50 l/min		50 l/min	100 l/min		200 l/min
DELIVERY PER STROKE APPROX. ⁽¹⁾	0,03 litres	0,07 litres	0,07 litres	0,07 litres	0,1 litres		0,1 litres	0,25 litres		0,50 litres
DELIVERY PER CYCLE (2 x STROKES) ⁽¹⁾	0,06 litres	0,14 litres	0,14 litres	0,14 litres	0,2 litres		0,2 litres	0,50 litres		1 litre
AIR PRESSURE OPERATING RANGE	1,5 to 7 bar	1,5 to 8 bar	1,5 to 8 bar	1,5 to 8 bar	1,5 to 8 bar		1,5 to 8 bar	1,5 to 8 bar		1,5 to 8 bar
SOLIDS IN SUSPENSION MAX. SIZE	2 mm	3 mm	3 mm	3 mm	3 mm		3 mm	4 mm		6 mm
MAXIMUM DRY SUCTION HEAD ⁽¹⁾	2 m	4 m	4 m	4 m	6 m		6 m	4,5 m		5 m
MAXIMUM WET SUCTION HEAD ⁽¹⁾	7 m	8 m	8 m	8 m	8 m		8 m	7 m		8 m
WEIGHT	1,2 kg	1,9 kg	1,9 kg	1,9 kg	2,2 kg		2,2 kg	5,1 kg		10,5 kg
FLUID INLET CONNECTION	1/4" BSPP (F)	1/2" BSP (F)	1/2" BSP (F)	2 x 3/8" BSP (F)	1/2" BSP (F)		2 x 3/8" BSP (F)	1" BSP (F)		1" Flange
FLUID OUTLET CONNECTION	Int: 1/4" BSPP (F) Ext: 1/2" NPT (M)	1/2" BSP (F)	1/2" BSP (F)	1/2" BSP (F)	1/2" BSP (F)		1/2" BSP (F)	1" BSP (F)		1" Flange
AIR INLET CONNECTION	3/8" NPSM (F)	3/8" NPSM (F)	3/8" NPSM (F)	3/8" NPSM (F)	3/8" NPSM (F)		3/8" NPSM (F)	3/8" NPSM (F)		3/8" NPSM (F)
PUMP BODY	Polypropylene	Polypropylene	Conductive Polypropylene	Polypropylene	Polypropylene	Conductive Polypropylene	Polypropylene	Polypropylene	Conductive Polypropylene	Polypropylene
DIAPHRAGMS	TPE	TPE	PTFE	TPE	TPE	PTFE	TPE	TPE	PTFE	TPE
BALLS	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
OTHER WETTED PARTS	FKM, Stainless steel	FKM, Stainless steel	FKM, Stainless steel	FKM, Stainless steel	FKM, Stainless steel	FKM, Stainless steel	FKM, Stainless steel	FKM, Stainless steel	FKM, Stainless steel	FKM, Stainless steel
APPLICATIONS	Antifreeze and windshield wash solutions, AdBlue® / DEF	Antifreeze and windshield wash solutions, AdBlue® / DEF	 ATEX pump for pure ethanol, pure windshield wash	1:1 ratio water / windshield or antifreeze solutions	Antifreeze and windshield wash solutions, AdBlue® / DEF	 ATEX pump for pure ethanol, pure windshield wash	1:1 ratio water / windshield or antifreeze solutions	Antifreeze and windshield wash solutions, AdBlue® / DEF	 ATEX pump for pure ethanol, pure windshield wash	Antifreeze and windshield wash solutions, AdBlue® / DEF

(1) Data measured with water, air inlet pressure 7 bar (100 psi), 20 °C (68 °F).

DOUBLE DIAPHRAGM PUMPS, DIRECTFLO® METAL SERIES							
PUMP SIZE	DF50	DF100	DP200	DF250			
PART No.	552 010	551 010	551 030	555 010	555 030	554 010	554 020
PUMP PRESSURE RATIO	1:1	1:1		1:1		1:1	
MAXIMUM FREE DELIVERY ⁽¹⁾	50 l/min	100 l/min		200 l/min		250 l/min	
DELIVERY PER STROKE APPROX. ⁽¹⁾	0,1 litres	0,25 litres		0,5 litres		0,6 litres	
DELIVERY PER CYCLE (2 x STROKES) ⁽¹⁾	0,2 litres	0,50 litres		1 litre		1,2 litres	
AIR PRESSURE OPERATING RANGE	1,5 to 8 bar	1,5 to 8 bar		1,5 to 8 bar		1,5 to 8 bar	
SOLIDS IN SUSPENSION MAX. SIZE	3 mm	4 mm		6 mm		6 mm	
MAXIMUM DRY SUCTION HEAD ⁽¹⁾	6 m	4,5 m		5 m		5 m	
MAXIMUM WET SUCTION HEAD ⁽¹⁾	8 m	7 m		8 m		8 m	
WEIGHT	3,5 kg	7,2 kg		11,5 Kg		20 kg	
FLUID INLET CONNECTION	1/2" BSP (F)	1" BSP (F)		1" BSPP (F)		1 1/2" BSP (F) and DIN PN-10 flange	
FLUID OUTLET CONNECTION	1/2" BSP (F)	1" BSP (F)		1" BSPP (F)		1 1/2" BSP (F) and DIN PN-10 flange	
AIR INLET CONNECTION	3/8" NPSM (F)	3/8" NPSM (F)		3/8" NPSM (F)		1/2" NPSM (F)	
PUMP BODY	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
DIAPHRAGMS	TPE	TPE	NBR	TPE	NBR	TPE	PTFE
BALLS	Acetal	Acetal	NBR	Acetal	Acetal	Acetal	Acetal
OTHER WETTED PARTS	PTFE, NBR, Stainless steel	PTFE, NBR, Stainless steel	PTFE, Stainless steel	NBR, Stainless steel	Stainless steel	NBR, Stainless steel	FKM, Stainless steel
APPLICATIONS	Antifreeze and windshield wash solutions, lubricants	Antifreeze and windshield wash solutions, lubricants, diesel	Special for waste oil and diesel evacuation	Antifreeze and windshield wash solutions, lubricants, diesel	Special for waste oil and diesel evacuation	Antifreeze and windshield wash solutions, lubricants, waste oil evacuation, diesel.	Diesel

(1) Data measured with water, air inlet pressure 7 bar (100 psi), 20 °C (68 °F).

PART No.

DOUBLE PEDESTAL DOUBLE ARM HOSE REELS, RM-12 SERIES							
PART No.	BARE REEL	HOSE IN Ø	HOSE LENGTH	CONNECTING HOSE INLET	DELIVERY HOSE OUTLET	PRESSURE RATING	WEIGHT (With hose)
AIR - WATER - ANTIFREEZE SOLUTIONS							
501 100	501 198	3/8"	10 m	1/2" BSP (M)	1/4" BSPT (M)	20 bar	17,9 kg
MINERAL AND SYNTHETIC LUBRICANTS							
501 200	501 298	1/2"	10 m	1/2" BSP (M)	1/2" BSP (M)	160 bar	20 kg
GREASE							
501 300	501 398	1/4"	10 m	1/2" BSP (M)	1/4" BSP (M)	400 bar	19,2 kg

(1) Bare reels include hose stopper and adaptors for connecting flow delivery and inlet hoses.

SINGLE ARM ALUMINIUM HOSE REELS, RM-12S SERIES							
AIR - WATER - ANTIFREEZE SOLUTIONS							
506 101	506 910	3/8"	10 m	3/8" BSP (M)	3/8" BSP (M)	20 bar	12,1 kg
506 121	506 912	3/8"	15 m	3/8" BSP (M)	3/8" BSP (M)	20 bar	14,2 kg
506 122	506 919	1/2"	15 m	1/2" BSP (M)	1/2" BSP (M)	20 bar	14,9 kg
WINDSHIELD AND WINDSHIELD WASH SOLUTIONS - ADBLUE®/DEF - DETERGENTS							
506 762	506 976	1/2"	10 m	1/2" BSP (M)	1/2" BSP (M)	20 bar	13 kg
506 782	506 978	1/2"	15 m	1/2" BSP (M)	1/2" BSP (M)	20 bar	15,5 kg
SYNTHETIC AND MINERAL OILS							
506 202	506 920	1/2"	10 m	1/2" BSP (M)	1/2" BSP (M)	160 bar	12,6 kg
506 222	506 922	1/2"	15 m	1/2" BSP (M)	1/2" BSP (M)	160 bar	14,9 kg
506 212*	506 921	1/2"	15 + 3 m	1/2" BSP (M)	1/2" BSP (M)	160 bar	15,7 kg
WASTE OIL SUCTION							
506 503	506 950	5/8"	6 m	1/2" BSP (M)	1/2" BSP (M)	Vacuum	13,3 kg
GREASE AND HYDRAULIC FLUID							
506 300	506 930	1/4"	10 m	1/4" BSP (M)	1/4" BSP (M)	400 bar	12,4 kg
506 301	506 934	3/8"	10 m	3/8" BSP (M)	1/4" BSP (M)	400 bar	12,9 kg
506 321	506 936	3/8"	15 m	3/8" BSP (M)	1/4" BSP (M)	400 bar	16 kg
506 311*	506 935	3/8"	15 + 3 m	3/8" BSP (M)	1/4" BSP (M)	400 bar	17 kg
HIGH PRESSURE HOT WATER (UP TO 100 °C)							
506 421	506 942	3/8"	15 m	3/8" BSP (M)	1/4" BSP (M)	170 bar	15,1 kg

*15 + 3 m models shall be need in installations allowing a minimum of 3 m of hose hanging from the reel,

INDIVIDUALLY ENCLOSED HOSE REELS, RM-12CL SERIES							
AIR - WATER - ANTIFREEZE SOLUTIONS							
507 101	507 910	3/8"	10 m	3/8" BSP (M)	3/8" BSP (M)	20 bar	18,4 kg
507 121	507 912	3/8"	15 m	3/8" BSP (M)	3/8" BSP (M)	20 bar	20,7 kg
507122	507 919	1/2"	15 m	1/2" BSP (M)	1/2" BSP (M)	20 bar	21,4 kg
WINDSHIELD AND WINDSHIELD WASH SOLUTIONS - ADBLUE®/DEF - DETERGENTS							
507 762	507 976	1/2"	10 m	1/2" BSP (M)	1/2" BSP (M)	20 bar	19 kg
507 782	507 978	1/2"	15 m	1/2" BSP (M)	1/2" BSP (M)	20 bar	20,5 kg
SYNTHETIC AND MINERAL OILS							
507 202	507 920	1/2"	10 m	1/2" BSP (M)	1/2" BSP (M)	160 bar	18,9 kg
507 222	507 922	1/2"	15 m	1/2" BSP (M)	1/2" BSP (M)	160 bar	21,4 kg
507 212*	507 921	1/2"	15 + 3 m	1/2" BSP (M)	1/2" BSP (M)	160 bar	22,2 kg
WASTE OIL SUCTION							
507 503	507 950	5/8"	6 m	1/2" BSP (M)	1/2" BSP (M)	Vacuum	19,1 kg
GREASE AND HYDRAULIC FLUID							
507 300	507 930	1/4"	10 m	1/4" BSP (M)	1/4" BSP (M)	400 bar	18,8 kg
507 301	507 934	3/8"	10 m	3/8" BSP (M)	1/4" BSP (M)	400 bar	19,5 kg
507 321	507 936	3/8"	15 m	3/8" BSP (M)	1/4" BSP (M)	400 bar	22,6 kg
507 311*	507 935	3/8"	15 + 3 m	3/8" BSP (M)	1/4" BSP (M)	400 bar	23,6 kg
HIGH PRESSURE HOT WATER (UP TO 100 °C)							
507 421	507 942	3/8"	15 m	3/8" BSP (M)	1/4" BSP (M)	170 bar	22,2 kg

*15 + 3 m models shall be need in installations allowing a minimum of 3 m of hose hanging from the reel,

HEAVY-DUTY HOSE REELS, RM-12L SERIES							
AIR / WATER / ANTIFREEZE SOLUTIONS							
504 150	504 159	1/2"	15 m	1/2" BSP (M)	1/2" BSP (M)	20 bar	24 kg
SYNTHETIC AND MINERAL OILS							
504 250	504 259	1/2"	15 m	1/2" BSP (M)	1/2" BSP (M)	160 bar	24 kg
GREASE AND HYDRAULIC FLUID							
504 350	504 359.001	1/4"	15 m	1/4" BSP (M)	1/4" BSP (M)	400 bar	27,5 kg
504 351	504 359	3/8"	15 m	3/8" BSP (M)	1/4" BSP (M)	400 bar	26 kg
HIGH PRESSURE HOT WATER (UP TO 100 °C)							
504 450	504 459	3/8"	15 m	3/8" BSP (M)	1/4" BSP (M)	170 bar	26 kg

PART No.

HEAVY-DUTY HOSE REELS, RM-34 SERIES

PART No.	BARE REEL	HOSE IN Ø	HOSE LENGTH	CONNECTING HOSE INLET	DELIVERY HOSE OUTLET	PRESSURE RATING	WEIGHT (With hose)
AIR / WATER / ANTIFREEZE SOLUTIONS / DIESEL / LUBRICANTS							
505 232	505 932	1/2"	20 m	3/4" BSP (F)	1/2" BSP (M)	160 bar	36 kg
505 224	505 924	3/4"	15 m	3/4" BSP (M)	3/4" BSP (M)	125 bar	38 kg
ADBLUE® - DEF / WINDSHIELD WASH SOLUTIONS / WASHING SOLUTIONS							
505 524	505 529	3/4"	15 m	3/4" BSP (M)	3/4" BSP (M)	20 bar	39 kg
GREASE AND HYDRAULIC FLUID							
505 332	505 339	1/2"	20 m	1/2" BSP (M)	1/2" BSP (M)	400 bar	39 kg

HEAVY-DUTY LARGE CAPACITY HOSE REELS, RM-100 SERIES

AIR / WATER / ANTIFREEZE SOLUTIONS / DIESEL							
508 125	508 925	1"	15 m	1" BSP (F)	1" BSP (F)	25 bar	50 kg
LUBRICANTS / WASTE OIL EVACUATION							
508 225	508 925	1"	15 m	1" BSP (F)	1" BSP (F)	90 bar	56 kg
508 234	508 924	3/4"	20 m	1" BSP (F)	3/4" BSP (F)	100 bar	55 kg
508 244	508 944	3/4"	25 m	1" BSP (F)	3/4" BSP (F)	100 bar	57 kg
508 252	508 942	1/2"	30 m	1" BSP (F)	1/2" BSP (F)	160 bar	55 kg

COMPACT REELS FOR AIR, RM-38 SERIES

500 115	N/A	8 mm	15 m	3/8" BSP (M)	1/4" BSP (M)	15 bar	6 kg
500 116	N/A	10 mm	12 m	3/8" BSP (M)	3/8" BSP (M)	15 bar	6 kg

CABLE REELS, RM-POWER SERIES

PART No.	CABLE SECTION	HOSE LENGTH	INLET VOLTAGE	OUTLET VOLTAGE	MAX. POWER	WEIGHT
612 400	2 x 1 mm ²	15 m	230 V +50 Hz	24 V - 50 Hz	11 w	4,4 kg
612 100	3 x 1,5 mm ²			230 V - 50 Hz	800 w	4,5 kg
612 200	2 x 1 mm ²			24 V - 50 Hz	60 w	5,6 kg
612 300	2 x 1 mm ²			12 V - 50 Hz	60 w	5,6 kg

ELECTRONIC METERED VALVES FOR OIL AND OTHER FLUIDS, EC30 SERIES

PART No.	OUTLET NOZZLE TYPE	TECHNICAL DATA	
365 521	Hose end meter with no outlet	MAXIMUM FLOW RATE	30 l/min
365 536	60° rigid with quarter turn opening non-drip tip	ACCURACY	+/- 0,5 %
365 535	Flexible outlet with 90° angled nozzle with automatic non-drip tip	MAXIMUM WORKING PRESSURE	100 bar
365 534	Flexible outlet with 90° angled nozzle with quarter turn opening non-drip tip	OPERATING TEMPERATURE RANGE	-10 °C to 60 °C
365 532	Flexible outlet with automatic non-drip tip	FLUID INLET	1/2" BSP (F)
365 537	Formable outlet with quarter turn opening non-drip tip	FLUID OUTLET	1/2" BSP (F)
365 538	Formable outlet with quarter turn opening narrow non-drip tip (Ø 8 mm)	WETTED PARTS	Acetal, Aluminium, Stainless steel, NBR, Zinc plated steel, TPU, Polyamide
		FLUID COMPATIBILITY	Lubricants, ATF, antifreeze (Glycol) and antifreeze water solutions
		WEIGHT	1,30 kg

ELECTRONIC METERED VALVE FOR WATER BASED FLUIDS, PF-C30 SERIES

PART No.	OUTLET NOZZLE TYPE	TECHNICAL DATA	
365 575	Flexible outlet with 90° angled outlet with quarter turn opening non drip tip	MAXIMUM FLOW RATE	30 l/min
		ACCURACY	+/- 0,5 %
		MAXIMUM WORKING PRESSURE	30 bar
		OPERATING TEMPERATURE RANGE	-23 °C to 50 °C
		FLUID INLET	1/2" BSP (F)
		FLUID OUTLET	1/2" BSP (F)
		FLUID COMPATIBILITY	Water based fluids, antifreeze, etc
		WEIGHT	1 kg

PRESET ELECTRONIC METERED VALVE, PCP-10 SERIES

PART No.	OUTLET NOZZLE TYPE	TECHNICAL DATA	
365 300	Rigid outlet with swivel	MAXIMUM FLOW RATE	15 l/min
		ACCURACY	+/- 0,5 %
		MAXIMUM WORKING PRESSURE	65 bar
		OPERATING TEMPERATURE RANGE	-45 °C to 70 °C
		FLUID INLET	1/2" BSP (F)
		FLUID OUTLET	1/2" BSP (F)
		FLUID COMPATIBILITY	All type of synthetic and mineral oils
		WEIGHT	1,78 kg

PART No.

ELECTRONIC METERED VALVES FOR OIL AND OTHER FLUIDS, EC70 SERIES

PART No.	OUTLET NOZZLE TYPE	TECHNICAL DATA	
365 655	30° rigid with semiautomatic non-drip tip, 3/4" BSP (F)	MAXIMUM FLOW RATE	70 l/min
		ACCURACY	+/- 0,5%
365 654	Flexible outlet with semiautomatic non-drip tip, 3/4" BSP (F)	MAXIMUM WORKING PRESSURE	100 bar
		OPERATING TEMPERATURE RANGE	-10 °C to 60 °C
365 657	30° rigid with semiautomatic non drip tip, 1" BSP (F)	FLUID INLET	3/4" BSP (F) or 1" BSP (F)
		FLUID OUTLET	3/4" BSP (F)
		WETTED PARTS	Acetal, Aluminium, Stainless steel, Zinc plated steel and brass, NBR
365 656	Flexible outlet with semiautomatic non drip tip, 1" BSP (F)	FLUID COMPATIBILITY	Oil
		WEIGHT	2,85 kg

CONTROL VALVES FOR OIL AND OTHER FLUIDS, PA40 SERIES

PART No.	OUTLET NOZZLE TYPE	TECHNICAL DATA	
363 100	No outlet	MAXIMUM FLOW RATE	40 l/min
363 116	60° rigid outlet and quarter turn non drip tip	MAXIMUM WORKING PRESSURE	100 bar
363 115	Flexible outlet with 90° tube and automatic non-drip tip	OPERATING TEMPERATURE RANGE	-10 °C to 70 °C
363 114	Flexible outlet with 90° tube and quarter turn non-drip tip	FLUID INLET	1/2" BSP (F)
		FLUID OUTLET	1/2" BSP (F)
363 112	Flexible outlet and automatic non-drip tip	WETTED PARTS	Aluminium, Zinc plated steel, TPU, Polyamide
363 117	Formable outlet and quarter turn non-drip	FLUID COMPATIBILITY	Lubricants, ATF, antifreeze (Glycol) and antifreeze water solutions
363 118	Formable outlet and quarter turn narrow non-drip (Ø 8 mm)	WEIGHT	470 g

CONTROL VALVES FOR OIL AND OTHER FLUIDS, PA70 SERIES

PART No.	OUTLET NOZZLE TYPE	TECHNICAL DATA	
363 053	30° rigid with semiautomatic non-drip tip, 3/4" BSP (F)	MAXIMUM FLOW RATE	90 l/min
		MAXIMUM WORKING PRESSURE	100 bar
363 054	Flexible outlet with semiautomatic non-drip tip, 3/4" BSP (F)	OPERATING TEMPERATURE RANGE	-10 °C to 70 °C
		FLUID INLET	3/4" BSP (F) or 1" BSP (F)
363 055	30° rigid with semiautomatic non drip tip, 1" BSP (F)	FLUID OUTLET	3/4" BSP (F)
		WETTED PARTS	Aluminium, Zinc plated steel and brass, NBR
363 056	Flexible outlet with semiautomatic non drip tip, 1" BSP (F)	FLUID COMPATIBILITY	All types of synthetic and mineral oils, antifreeze solutions, hydraulic fluid
		WEIGHT	2,05 kg

MECHANICAL METERED VALVES FOR OIL AND OTHER FLUIDS, MC30 SERIES

PART No.	OUTLET NOZZLE TYPE	TECHNICAL DATA	
	METRIC METERS. 0 - 10 LITRE DIAL, TOTALIZER IN LITRES - LUBRICANTS	MAXIMUM FLOW RATE	30 l/min
365 801	No outlet. Includes inlet swivel with shroud	ACCURACY	+/- 0,65 %
365 803	Flexible outlet with automatic non-drip tip	MAXIMUM WORKING PRESSURE	100 bar
365 804	Formable outlet with quarter turn opening non-drip tip	OPERATING TEMPERATURE RANGE	-10 °C to 60°C
	METRIC METERS. 0 - 10 LITRE DIAL, TOTALIZER IN LITRES - ANTIFREEZE	FLUID INLET	1/2" BSP (F)
		FLUID OUTLET	1/2" BSP (F)
365 824	Formable outlet with quarter turn opening non-drip tip	WETTED PARTS	Aluminium / Zinc alloy / Stainless steel / NBR / Brass / Steel / TPU / Polyamide
	QUARTS/GALLONS METERS. 4 - 16 QUART DIAL, TOTALIZER IN GALLONS - LUBRICANTS	FLUID COMPATIBILITY	Synthetic and mineral oils, ATF, Antifreeze, Gear oils
365 802	No outlet. Includes inlet swivel with shroud	WEIGHT	1,7 kg
365 805	Formable outlet with automatic non-drip tip		
365 806	Formable outlet with quarter turn opening non-drip tip		
	QUARTS/GALLONS METERS. 4 - 16 QUART DIAL, TOTALIZER IN GALLONS - ANTIFREEZE		
365 826	Formable outlet with quarter turn opening non-drip tip		

MECHANICAL METERED PRESET VALVES FOR OIL AND OTHER FLUIDS, MP30 SERIES

PART No.	OUTLET NOZZLE TYPE	TECHNICAL DATA	
	METRIC METERS. 0 - 60 LITRE DIAL, TOTALIZER IN LITRES	MAXIMUM FLOW RATE	30 l/min
		ACCURACY	+/- 0,65 %
365 811	Rigid outlet with semiautomatic non drip tip	MAXIMUM WORKING PRESSURE	100 bar
	QUARTS/GALLONS METERS. 0 - 60 QUART DIAL, TOTALIZER IN GALLONS	OPERATING TEMPERATURE RANGE	-10 °C to 60 °C
365 812	Rigid outlet with semiautomatic non drip tip	FLUID INLET	1/2" BSP (F)
		FLUID OUTLET	1/2" BSP (F)
	QUARTS/GALLONS METERS. 0 - 60 GALLON DIAL, TOTALIZER IN GALLONS	WETTED PARTS	Aluminium / Zinc alloy / Stainless steel / NBR / Brass / Steel / TPU / Polyamide
365 813	Rigid outlet with semiautomatic non drip tip	FLUID COMPATIBILITY	Synthetic and mineral oils, ATF, Antifreeze
		WEIGHT	2 kg

* Non drip tips are manufactured in brass.

All models include inlet swivel with shroud and the outlet listed for each model.

PART No.

GREASE CONTROL VALVE, PG77 SERIES			
PART No.	OUTLET NOZZLE TYPE		TECHNICAL DATA
413 077	30° rigid outlet	MAXIMUM WORKING PRESSURE FLUID INLET FLUID OUTLET FLUID COMPATIBILITY WEIGHT	500 bar
413 080	30° rigid, with Z-swivel		1/4" BSP (F)
413 082	Flexible outlet with Z-swivel		1/8" BSP (F) Grease 1 kg

FOUR-WAY VALVE	
PART No.	DESCRIPTION
361 300	Four-way evacuation valve, 1" BSP (F)

WASTE OIL UNITS		WASTE OIL EVACUATION KITS	
PART No.	DESCRIPTION	PART No.	DESCRIPTION
372 000	100 litres combined waste oil suction and gravity collector unit with transparent chamber	559 101	Waste oil evacuation DF100 pump kit
373 000	70 litres combined waste oil suction and gravity collector unit with transparent chamber	379 100	Waste oil evacuation PM2 pump kit
372 500	100 litres combined waste oil suction and gravity collector unit	559 111	Waste oil evacuation DF100 pump kit with RM-100 hose reel
373 500	70 litres combined waste oil suction and gravity collector unit	559 511	Waste oil evacuation DP200 pump kit with RM-100 hose reel
372 100	100 litres combined waste oil suction collector unit with transparent chamber		
373 100	70 litres combined waste oil suction collector unit with transparent chamber		
372 600	100 litres combined waste oil suction collector unit		
373 600	70 litres combined waste oil suction collector unit		
371 600	24 litres combined waste oil suction collector unit		
372 400	100 litres gravity waste oil drainer, pressure discharge		
373 400	70 litres gravity waste oil drainer, pressure discharge		
372 200	100 litres gravity waste oil drainer, included pump discharge		
373 200	70 litres gravity waste oil drainer, included pump discharge		
372 300	100 litres gravity waste oil drainer, remote pump discharge		
373 300	70 litres gravity waste oil drainer, remote pump discharge		
437 300	Motor bike waste oil drainer, 35 litres		
435 000	Low level waste oil mobile drainer, 20 litres		
436 000	Low level waste oil mobile drainer, 95 litres		
436 100	Low level waste oil and waste antifreeze drainer with a DF50 Diaphragm pump, 95 litres		
379 710	Evacumaster, pedestal mounted waste oil suction unit		
379 711	Evacumaster, wall mounted waste oil suction unit		

AdBlue® / DEF PNEUMATIC PUMP KITS, DIRECTFLO® SERIES						
PART No.	APPLICATION	PUMP	NOZZLE	SUPPORT	HOSES	OTHER ACCESSORIES
557 950	On drums	DF50 (552 164)	Manual 361 003.370	360 137	930 507 (3 m + 1,5 m)	560 901 + 259 038 + 944 628 + 689 045 + 689 054 + 689 055
557 951	On drums	DF50 (552 164)	Automatic 569 001	360 137	930 507 (3 m + 1,5 m)	560 901 + 259 038 + 944 628 + 689 045 + 689 054 + 689 055
559 011	On wall	DF50 (552 164)	-	360 100	930 507 (5 m) - 246 010 (1 m)	944 627 + 253 114 + 259 014 + 945 516 + 689 047 + 689 054

AdBlue® / DEF ELECTRICAL PUMP KITS, SOLURA SERIES							
PART No.	POWER SUPPLY	APPLICATION	PUMP	SUPPORT	NOZZLE	METER	SUCTION ACCESSORIES
560 301	230 VAC	IBCs and drums	560 230	360 137	361 001.370 manual	-	1 m hose and CSC connector
560 302	230 VAC	IBCs and drums	560 230	360 137	361 001.370 manual	366 760	1 m hose and CSC connector
560 303	230 VAC	IBCs and drums	560 230	360 137	569 000 automatic	-	1 m hose and CSC connector
560 304	230 VAC	IBCs and drums	560 230	360 137	569 000 automatic	366 760	1 m hose and CSC connector
560 300	230 VAC	IBCs and drums	560 230	-	361 001.370 manual	-	2,5 m hose and foot valve
560 310	12 VDC	IBCs and drums	560 212	-	361 001.370 manual	-	2,5 m hose and foot valve
560 320	24 VDC	IBCs and drums	560 224	-	361 001.370 manual	-	2,5 m hose and foot valve

AdBlue® / DEF MOBILE DISPENSERS						
PART No.	PUMP	REEL	METER	NOZZLE	ACCESSORIES	
557 952	Diaphragm Pump DF30 Series (553 164)	Air, 15 m (500 115)	PVC In-line Meter (366 010)	Automatic (569 005)	Hoses and drum connector	
557 953	Diaphragm Pump DF30 Series (553 164)	-	PVC In-line Meter (366 010)	Automatic (569 005)	Hoses and drum connector	
560 307	Electric Pump Solura Series (560 230)	Cable, 15 m (612 100)	PVC In-line Meter (366 010)	Automatic (569 005)	Hoses and drum connector	
560 308	Electric Pump Solura Series (560 230)	-	PVC In-line Meter (366 010)	Automatic (569 005)	Hoses and drum connector	

MANUAL LUBRICATION	
PART No.	DESCRIPTION
150 000	Multipressure grease bucket pump, 16 kg
320 400	Oil bucket pump, 16 litres
157 000	Pedal action grease pump
304 500	Lever action metal drum pump for lubricants
300 006	Lever action plastic drum pump for AdBlue® / DEF
101 200	Lever action grease pump, 500 cc
101 800	Lever action grease pump, 1.000 cc



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