

MINING & CONSTRUCTION

HEAVY-DUTY LUBRICATION EQUIPMENT



CONTROL MASTER®

PUMP MASTER®

REEL MASTER®

LUBE 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

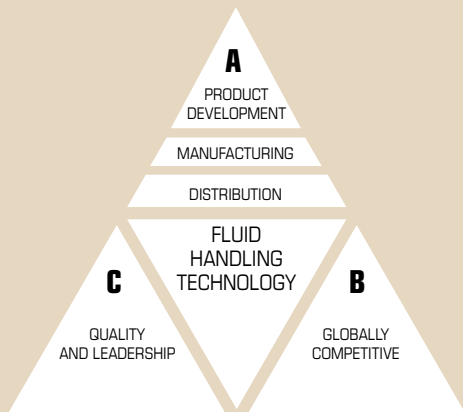
SAMOA's headquarters have been in Gijón, on the Spanish North Coast, for over 55 years. SAMOA's manufacturing facilities are modern and are equipped with the latest state-of-the art production equipment and technology. We are committed to design and manufacturing excellence, environmental sustainability 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 facility 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.



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.

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.



SAMOA PROVIDING YOU EFFICIENT SOLUTIONS

SAMOA provides solutions for dispensing all fluids used in vehicle service facilities and in Construction and Mining needs. Lubricants, grease, water, windshield wash, antifreeze and coolant solutions, AdBlue®/DEF, diesel, etc. From simple single point dispense systems or mobile packages to the most sophisticated installations, our solutions include all necessary components for pumping, distributing and controlling all fluids in your facility.

CONTROL MASTER®

PUMP MASTER®

REEL MASTER®

LUBE MASTER®



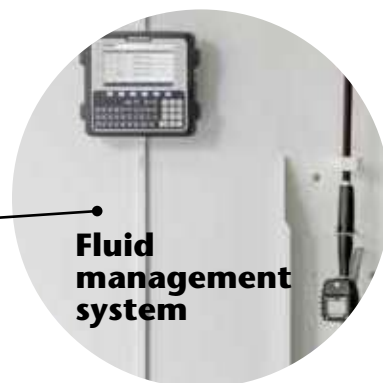
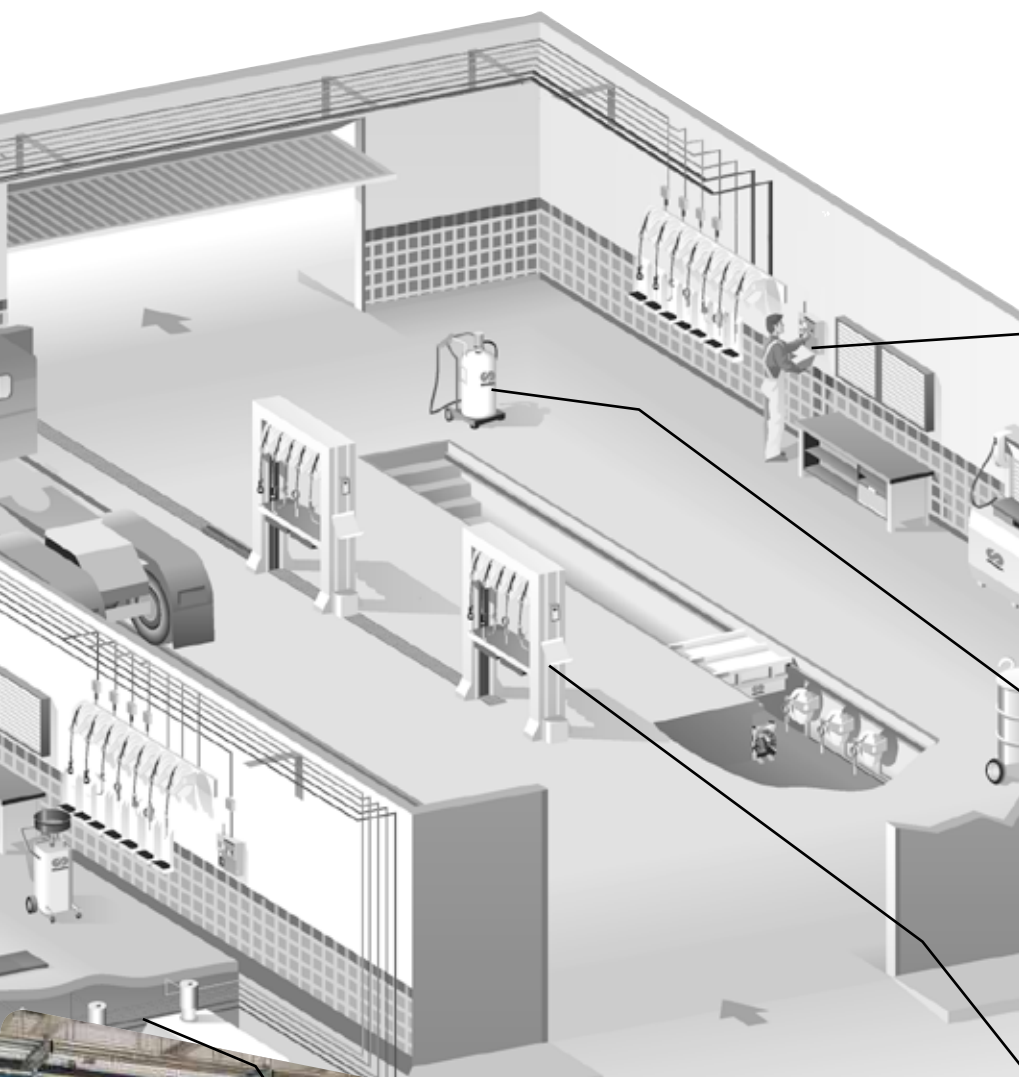
Fluid management system

Control valves



Used fluid kits

HEAVY-DUTY CONSTRUCTION AND HIGH PERFORMANCE EQUIPMENT DESIGNED FOR THE TOUGHEST ENVIRONMENTS



Fluid management system



Oil and grease dispensers



Tank room



Tank room



Hose reels

KEEPING THE FLUID TRACK

CONTROL MASTER®

NEX·U.
FLUID MANAGEMENT SYSTEM



Fluid Management 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

EVERY YEAR A LARGE VOLUME OF LUBRICANTS AND OTHER SERVICE FLUIDS ARE PURCHASED...

- > DO YOU KNOW HOW IT IS USED?
- > DO YOU KNOW HOW MUCH IS LOST?
- > DO THE VOLUMES PURCHASED RECONCILE WITH THE VOLUMES SOLD?

IF YOU CANNOT ANSWER ANY OF THESE QUESTIONS, THEN YOU NEED TO TRACK YOUR FLUIDS.

- ✓ **NEX·U.**®: connects you with efficient, simple and modern fluid tracking.
- ✓ **NEX·U.**®: Every drop counts.
- ✓ **NEX·U.**®: Real time, permanent inventory control. Set alarm and re-ordering levels for no running out of fluids.

NEX·U.® ADAPTS TO YOUR OPERATION

- System access through a keypad, oil gun module or any computer terminal, laptop, tablet or smartphone used as a virtual keypad.
- Power to open solenoid valves is always wired, no batteries.
- Data transmission can be wireless or wired, to better meet your needs.
- Does not need installation in any of your computers or server.
- Web based software, accessible to all terminals connected.
- NEX·U.® mobile allows fluid inventory and usage control in mobile service trucks.

DMS CONNECTION

More secured transactions: validate various job order fields and integrate transaction details.

FLUID MANAGEMENT SYSTEM



Profitability,
satisfies
everyone's
needs

EFFICIENT FLUID MANAGEMENT FOR:

- HEAVY-DUTY MAINTENANCE
- FLEET CENTERS
- LUBE TRUCKS AND MOBILE SERVICE CENTRES
- AUTOMOTIVE SERVICE CENTERS AND CAR DEALERS

MAIN COMPONENTS



U-net

Single board computer controls the system and contains the U-track web based software.



U-valve

All in one pulse meter, solenoid valve, filter and electronic module with display.



U-dat

System keypad with a full colour, touch screen and a full QWERTY keypad provides full access to NEX-U.® and U-track.



U-vision

Handheld displays. U-vision+ also includes system access keypad.



U-tank

Provides real-time inventory control and manages different alarm points.



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 |
|---|---|---|--|--|
| 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 |



Lube truck applications



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 PUMP 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

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



Grease portable units



Grease mobile units

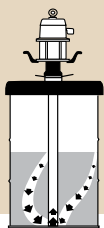


Tank horizontal mounted pump kit

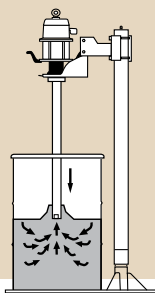


AIR OPERATED GREASE PUMPS

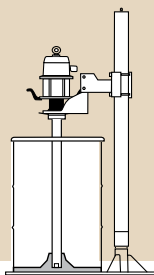
- Easy maintenance
- Quiet, non icing
- Reduced air consumption
- State of the art material
- Designed for long and reliable life
- Pump systems with pneumatic inductor available



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.

FLUIDS HANDLED

- High viscosity oil
- Grease up to NLGI-3
- Tail grease

SAMOA offers a complete range of accessories.



For additional 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.

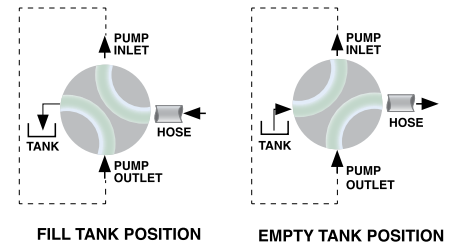
PLASTIC PUMPS



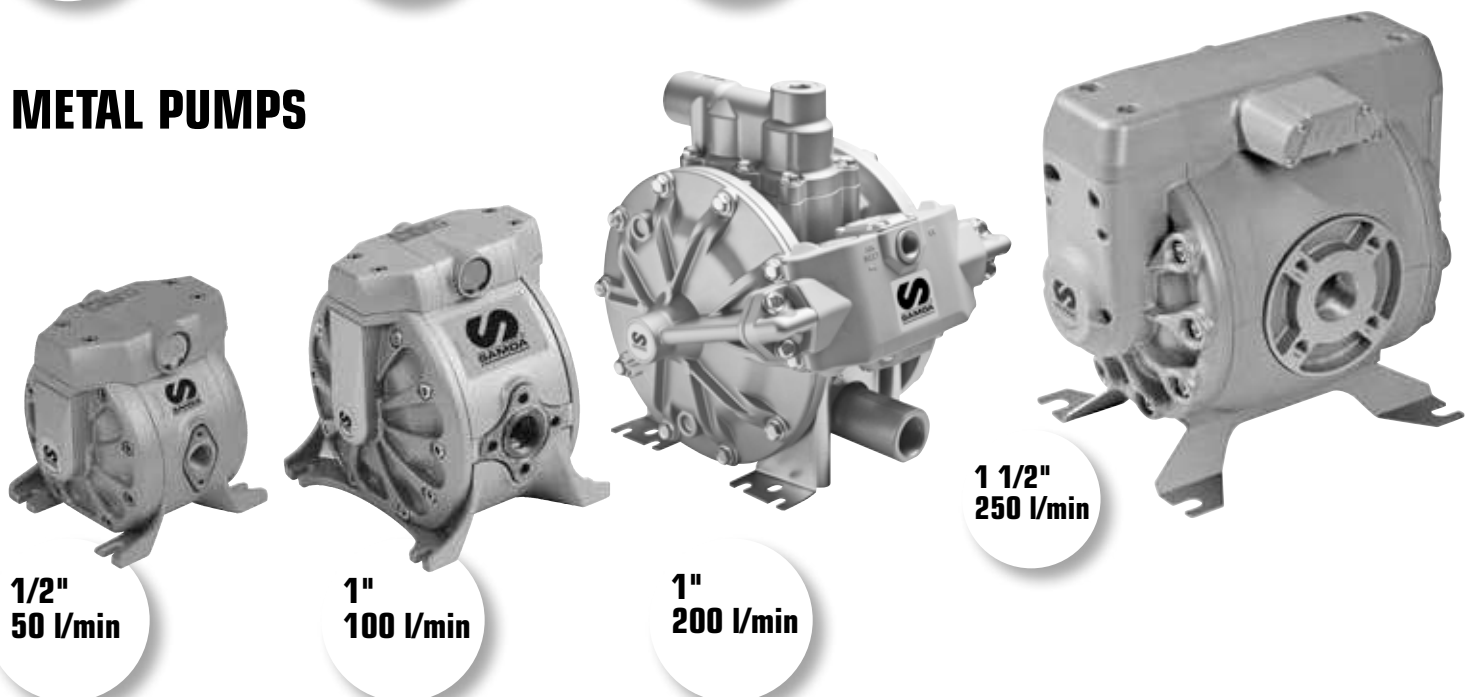
1/2"
50 l/min

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.

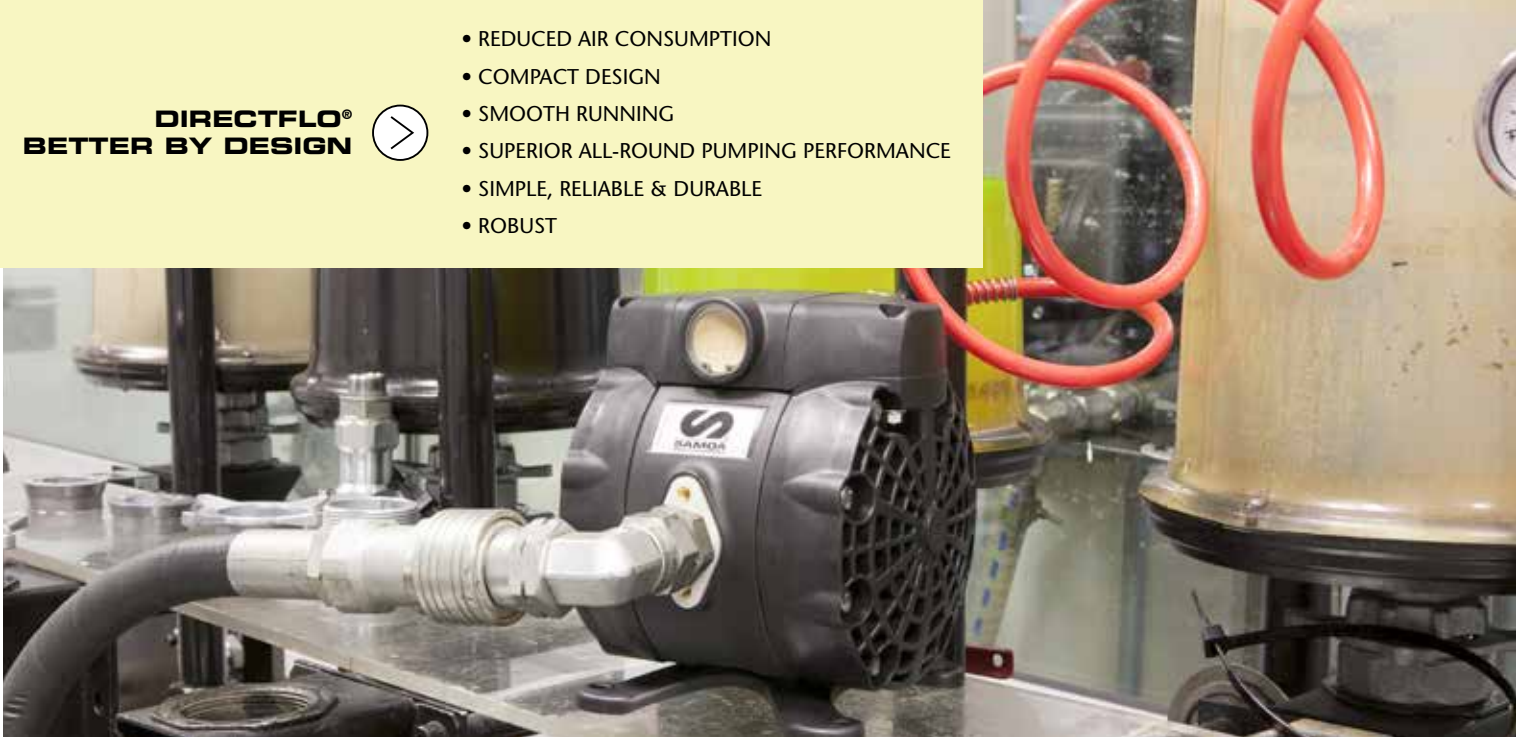
Important innovations were necessary to realise the central flow concept.



**DIRECTFLO®
BETTER BY DESIGN**



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



QUICK AND SIMPLE MAINTENANCE

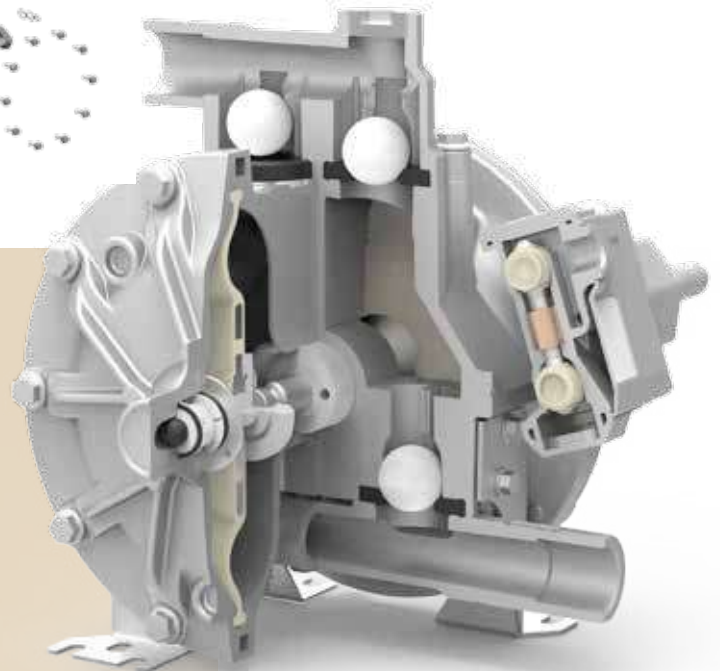


AIR OPERATED DOUBLE DIAPHRAGM PUMPS

- 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



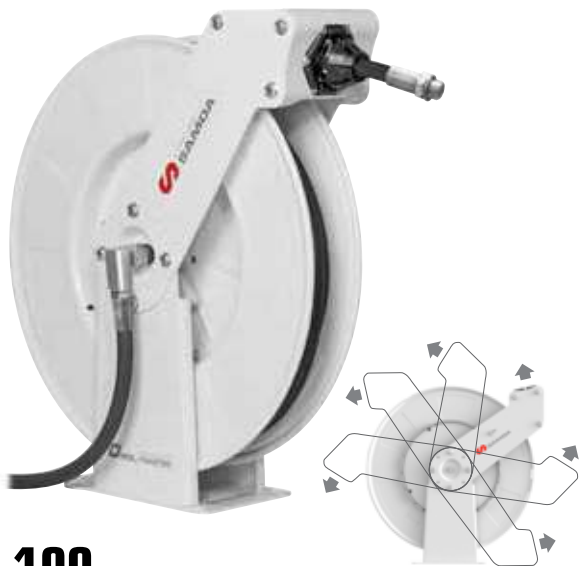
HEAVY-DUTY HOSE REELS

REEL MASTER®

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

RM-12L

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



RM-34

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



RM-100

Low, medium pressure fluids. Up to: 15 m x 1" hose, 20 m x 3/4" hose, 25 m x 3/4" hose or 30 m x 1/2" hose.



RM-150

Low pressure fluids, extra large delivery up to 15 m x 1 1/2" hose.





HEAVY-DUTY HOSE REELS

- Superior power spring life and trouble free operation
- Heavy-Duty ratchet with user friendly operation metal structure
- Base and 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®
- Waste oil
- Diesel
- Grease
- Hydraulic fluid

SAMOA offers a complete range of accessories for hose reel installations



CONTROL VALVES AND METERS

> METERS AND CONTROL VALVES ENGINEERED FOR DURABILITY UNDER THE TOUGHEST CONDITIONS

CONTROL MASTER®



CONTROL MASTER **EC70**

**HIGH-FLOW
ELECTRONIC METER
CONTROL VALVE**

For all types of lubricants high flow applications.

70 l/min nominal flow rate.



CONTROL MASTER **PA70**

**HIGH-FLOW
CONTROL VALVE**

For all types of lubricants and antifreeze.

90 l/min nominal flow rate.



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.



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 THE TOUGHEST CONDITIONS

CONTROL MASTER®



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

Grease control valve



CONTROL VALVES AND METER

- 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

WASTE OIL MANAGEMENT

> RESPONSIBLE AND EFFICIENT WASTE FLUID MANAGEMENT

LUBE MASTER®



LOW LEVEL MOBILE DRAINER

95 litres. Low level mobile drainer.
For use with vans, trucks, tractors, mining and construction vehicles.



WASTE OIL DRAIN AND EVACUATION PUMP KITS

DF100 double diaphragm pump kit (100 l/min) for discharging waste oil drainers through a hydraulic coupler.

DP200 double diaphragm pump kit (200 l/min) for discharging waste oil.

DF250 double diaphragm pump kit (250 l/min) for discharging waste oil.



LUBRICATION AND FLUID HANDLING

> SAMOA OFFERS A WIDE RANGE OF HAND OPERATED PRODUCTS TO SOLVE THE SIMPLEST NEEDS



BATTERY GREASE PUMPS

18 V



450 bar



LEVER ACTION GREASE PUMPS

500 cc



PISTOL GRIP GREASE PUMPS

500 cc



BUCKET PUMPS

16 Litres



Cartridge loading



Loading with filler pump (using filler valve: 128 003)

ROTARY DRUM PUMPS



HIGH PERFORMANCE DRUM PUMPS



LEVER ACTION DRUM PUMPS



PART No.

| OIL PUMPS | PM2 PUMPS | | | PM4 PUMPS | | | | PM35 PUMPS | |
|---|---------------------|----------------|-----------------|--------------------|-----------------|---------------------|-----------------|---------------------|-------------------------|
| PART No. | 351 120 | 356 120 | 352 120 | 340 120 | 341 120 | 347 120 | 348 120 | 535 530 | 535 510 |
| APPLICATION | Stub pump | 60 l drum pump | 205 l drum pump | 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 | 700 mm | 915 mm | 200 mm | 910 mm | 278 mm | 915 mm | 186 mm | 910 mm |
| TOTAL HEIGHT | 500 mm | 985 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 | | 5:1 | | 5:1 | |
| AIR PRESSURE OPERATING RANGE | 1,5 - 10 bar | | | 1,5 - 10 bar | | 1,5 - 10 bar | | 2 to 12 bar | |
| AIR CONSUMPTION ⁽¹⁾ | 150 NL/min | | | 285 NL/min | | 400 NL/min | | 350 NL/min | |
| MAXIMUM FLUID OUTLET PRESSURE | 10 bar | | | 30 bar | | 50 bar | | 60 bar | |
| AIR MOTOR DIAMETER | 51 mm | | | 88 mm | | 88 mm | | 80 mm | |
| AIR MOTOR EFFECTIVE DIAMETER | 35 mm | | | 60 mm | | 60 mm | | 80 mm | |
| AIR MOTOR STROKE | 75 mm | | | 100 mm | | 100 mm | | 80 mm | |
| DELIVERY | 20 l/min at 150 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 | | | 42 l/min | | 25 l/min | | 30 l/min | |
| AIR INLET | 1/4" BSP (F) | | | 3/8" BSP (F) | | 3/8" NPSM | | 3/8" BSP (F) | |
| FLUID INLET (SHORT PUMP ONLY) | 1" BSP (F) | | | 1" BSP (F) | | 1" BSP (F) | | 1 1/2" BSP (F) | |
| FLUID OUTLET | 3/4" BSP (F) | | | 3/4" BSP (F) | | 3/4" NPSM | | 1/2" BSP (F) | |
| NOISE LEVEL ⁽³⁾ | 80 dB | | | 93 dB | | 95 dB | | 80 dB | |

(1) Air consumption with 6 bar air inlet pressure and with PM2 - 1:1 150 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 NL/min | | 800 NL/min | 830 NL/min | 850 NL/min | | 1.100 NL | 1.150 NL |
| 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 |

| 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 | 12,5 - 20 kg |
| 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 NL/min | | | | 450 NL/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.

PART No.

| 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 |
| 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 | DF50 | | DF100 | | DP200 |
| PART No. | 552 164 | 552 162 | 551 164 | 551 162 | 555 115 |
| PUMP PRESSURE RATIO | 1:1 | | 1:1 | | 1:1 |
| MAXIMUM FREE DELIVERY ⁽¹⁾ | 50 l/min | | 100 l/min | | 200 l/min |
| DELIVERY PER STROKE APPROX. ⁽¹⁾ | 0,1 litres | | 0,25 litres | | 0,50 litres |
| DELIVERY PER CYCLE (2 X STROKES) ⁽¹⁾ | 0,2 litres | | 0,50 litres | | 1 litre |
| AIR PRESSURE OPERATING RANGE | 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 |
| MAXIMUM DRY SUCTION HEAD ⁽¹⁾ | 6 m | | 4,5 m | | 5 m |
| MAXIMUM WET SUCTION HEAD ⁽¹⁾ | 8 m | | 7 m | | 8 m |
| WEIGHT | 2,2 kg | | 5,1 kg | | 10,5 kg |
| FLUID INLET CONNECTION | 1/2" BSP (F) | | 1" BSP (F) | | 1" Flange |
| FLUID OUTLET CONNECTION | 1/2" BSP (F) | | 1" BSP (F) | | 1" Flange |
| AIR INLET CONNECTION | 3/8" NPSM (F) | | 3/8" NPSM (F) | | 3/8" NPSM (F) |
| PUMP BODY | Polypropylene | Conductive Polypropylene | Polypropylene | Conductive Polypropylene | Polypropylene |
| DIAPHRAGMS | TPE | PTFE | TPE | PTFE | TPE |
| BALLS | PTFE | PTFE | PTFE | PTFE | PTFE |
| OTHER WETTED PARTS | FKM, Stainless steel | FKM, Stainless steel | FKM, Stainless steel | FKM, Stainless steel | FKM, Stainless steel |
| APPLICATIONS | Antifreeze and windshield wash solutions, AdBlue® / DEF | ⊗ ATEX pump for pure ethanol, pure windshield wash | 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).

If you want to see our complete range of products, kits or accessories, you can consult our General Catalogue

PART No.

| 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 | |
| DIAPHRAGMS | TPE | | TPE | | TPE | | TPE | |
| BALLS | Acetal | | NBR | | NBR | | PTFE | |
| OTHER WETTED PARTS | PTFE, NBR, Stainless steel | Acetal | Acetal | NBR | NBR | Acetal | Acetal | Acetal |
| APPLICATIONS | Antifreeze and windshield wash solutions, lubricants | PTFE, NBR, Stainless steel | PTFE, NBR, Stainless steel | PTFE, Stainless steel | NBR, Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| | | Antifreeze and windshield wash solutions, lubricants, diesel | Special for waste oil and diesel evacuation | Special for waste oil and diesel evacuation | Antifreeze, lubricants, diesel. | Special for waste oil and diesel evacuation | Antifreeze and windshield wash solutions, lubricants, diesel. | Diesel |

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

| HEAVY-DUTY HOSE REELS, RM-12L 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 | | | | | | | |
| 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 |
| HEAVY-DUTY HOSE REELS, RM-34 SERIES | | | | | | | |
| 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 |
| HEAVY-DUTY LARGE DELIVERY HOSE REELS, RM-150 SERIES | | | | | | | |
| WATER / DIESEL | | | | | | | |
| 508 810 | 508 890 | 1-1/2" | 15 m | 1-1/2" BSP (F) | 1-1/2" BSP (F) | 20 bar | 87 kg |

| ELECTRONIC METERED CONTROL 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 |
| 365 654 | Flexible outlet with semiautomatic non-drip tip, 3/4" BSP (F) | ACCURACY | +/- 0,5% |
| 365 657 | 30° rigid with semiautomatic non drip tip, 1" BSP (F) | MAXIMUM WORKING PRESSURE | 100 bar |
| 365 656 | Flexible outlet with semiautomatic non drip tip, 1" BSP (F) | OPERATING TEMPERATURE RANGE | -10 °C to 60 °C |
| | | 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 |
| | | FLUID COMPATIBILITY | Oil |
| | | WEIGHT | 2,85 kg |

PART No.

| 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 |
| 363 054 | Flexible outlet with semiautomatic non-drip tip, 3/4" BSP (F) | MAXIMUM WORKING PRESSURE | 100 bar |
| 363 055 | 30° rigid with semiautomatic non drip tip, 1" BSP (F) | OPERATING TEMPERATURE RANGE | -10 °C to 70 °C |
| 363 056 | Flexible outlet 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 | Aluminium, Zinc plated steel and brass, NBR |
| | | FLUID COMPATIBILITY | All types of synthetic and mineral oils, antifreeze solutions, hydraulic fluid |
| | | WEIGHT | 2,05 kg |

| ELECTRONIC METERED CONTROL 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 |

| CONTROL VALVES FOR OIL AND OTHER FLUIDS, PA 40 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) |
| 363 112 | Flexible outlet and automatic non-drip tip | FLUID OUTLET | 1/2" BSP (F) |
| 363 117 | Formable outlet and quarter turn non-drip | WETTED PARTS | Aluminium, Zinc plated steel, TPU, Polyamide |
| 363 118 | Formable outlet and quarter turn narrow non-drip (Ø 8 mm) | FLUID COMPATIBILITY | Lubricants, ATF, antifreeze (Glycol) and antifreeze water solutions |
| | | WEIGHT | 470 g |

| MECHANICAL METERED CONTROL VALVES FOR OIL AND OTHER FLUIDS, MC30 SERIES | | | |
|--|--|------------------------------------|---|
| PART No. | OUTLET NOZZLE TYPE | TECHNICAL DATA | |
| METRIC METERS. 0 - 10 LITER DIAL, TOTALIZER IN LITERS - 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 LITER DIAL, TOTALIZER IN LITERS - ANTIFREEZE | | FLUID INLET | 1/2" BSP (F) |
| 365 824 | Formable outlet with quarter turn opening non-drip tip | FLUID OUTLET | 1/2" BSP (F) |
| QUARTS/GALLONS METERS. 4 - 16 QUART DIAL, TOTALIZER IN GALLONS - LUBRICANTS | | WETTED PARTS | Aluminium, Zinc alloy, Stainless steel, NBR, Brass, Steel, TPU, Polyamide |
| 365 802 | No outlet. Includes inlet swivel with shroud | FLUID COMPATIBILITY | Synthetic and mineral oils, ATF, Antifreeze, Gear oils |
| 365 805 | Formable outlet with automatic non-drip tip | WEIGHT | 1,7 kg |
| 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 CONTROL VALVES FOR OIL AND OTHER FLUIDS, MP30 SERIES | | | |
|--|--|------------------------------------|---|
| PART No. | OUTLET NOZZLE TYPE | TECHNICAL DATA | |
| METRIC METERS. 0 - 60 liter dial, totalizer in liters | | MAXIMUM FLOW RATE | 30 l/min |
| 365 811 | Rigid outlet with semiautomatic non drip tip | ACCURACY | +/- 0,65 % |
| QUARTS/GALLONS METERS. 0 - 60 quart dial, totalizer in gallons | | MAXIMUM WORKING PRESSURE | 100 bar |
| 365 812 | Rigid outlet with semiautomatic non drip tip | OPERATING TEMPERATURE RANGE | -10 °C to 60 °C |
| QUARTS/GALLONS METERS. 0 - 60 gallon dial, totalizer in gallons | | FLUID INLET | 1/2" BSP (F) |
| 365 813 | Rigid outlet with semiautomatic non drip tip | FLUID OUTLET | 1/2" BSP (F) |
| | | WETTED PARTS | Aluminium, Zinc alloy, Stainless steel, NBR, Brass, Steel, TPU, Polyamide |
| | | 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.

| GREASE CONTROL VALVE, PG77 SERIES | | | FOUR-WAY VALVE | |
|-----------------------------------|-------------------------------|---|----------------|---------------------------------------|
| PART No. | OUTLET NOZZLE TYPE | TECHNICAL DATA | PART No. | DESCRIPTION |
| 413 077 | 30° rigid outlet | MAXIMUM WORKING PRESSURE 500 bar | 361 300 | Four-way evacuation valve, 1" BSP (F) |
| 413 080 | 30° rigid, with Z-swivel | FLUID INLET 1/4" BSP (F) | | |
| 413 082 | Flexible outlet with Z-swivel | FLUID OUTLET 1/8" BSP (F) | | |
| | | FLUID COMPATIBILITY Grease | | |
| | | WEIGHT 1 kg | | |

| MANUAL LUBRICATION | | WASTE OIL EVACUATION KITS | |
|--------------------|--|---------------------------|---|
| PART No. | DESCRIPTION | PART No. | DESCRIPTION |
| 150 000 | Multipressure grease bucket pump, 16 kg | 559 101 | Waste oil evacuation DF100 pump kit |
| 320 400 | Oil bucket pump, 16 litres | 559 501 | Waste oil evacuation DP200 pump kit |
| 157 000 | Pedal action grease pump | 379 100 | Waste oil evacuation PM2 pump kit |
| 304 500 | Lever action metal drum pump for lubricants | 559 111 | Waste oil evacuation DF100 pump kit with RM-100 hose reel |
| 300 006 | Lever action plastic drum pump for AdBlue® / DEF | 559 511 | Waste oil evacuation DP200 pump kit with RM-100 hose reel |
| 101 200 | Lever action grease pump, 500 cc | | |
| 101 800 | Lever action grease pump, 1.000 cc | | |



SAMOA INDUSTRIAL, S.A. - HEADQUARTERS

SPAIN AND EXPORT MARKETS
POL. IND. PORCEYO, I-14 - CAMINO DEL FONTÁN, 831
E-33392 GIJÓN (ASTURIAS), SPAIN
TEL.: +34 985 381 488 - FAX: + 34 985 147 213
export@samoaindustrial.com - www.samoaindustrial.com

SAMOA LTD.

UNITED KINGDOM AND REP. OF IRELAND
ASTURIAS HOUSE - BARRS FOLD ROAD
WINGATES INDUSTRIAL PARK
WESTHOUGHTON, BL5 3XP, UK
TEL.: +44 1942 850600 - FAX: +44 1942 812160
sales@samoaltd.uk - www.samoaltd.uk

SAMOA S.A.R.L.

FRANCE
P.A.E.I. DU GIESSEN
3, RUE DE BRISCHBACH
67750 SCHERWILLER, FRANCE
TEL.: +33 3 88 82 79 62 - FAX: +33 3 88 82 77 88
samoafrance@samoafrance.com - www.samoafrance.com

SAMOA-HALLBAUER GMBH

GERMANY AND AUSTRIA
INDUSTRIESTRASSE, 18
D-68519 VIERNHEIM, GERMANY
TEL.: +49 6204 7095-0 - FAX: +49 6204 7095-33
info@samoahallbauer.de - www.samoahallbauer.de

SAMSON CORPORATION

NORTH AMERICA
ONE SAMSON WAY
SWANNANOVA, NC 28778, USA
TEL.: +1 828 686 8511 - FAX: +1 828 686 8533
info@samsoncorporation.com - www.samsoncorporation.com

SAMOA CHINA SALES OFFICE

ROOM 702, RONG GUANG BUSINESS CENTER
572 KUN MING ROAD, SHANGHAI 200082, P.R. CHINA
TEL.: +86 21 3319 0210 - FAX: +86 21 5102 7883
china@samoaindustrial.com

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