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MEASURE AND CONTROL

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413 080

GREASE CONTROL GUNS



Grease control guns

Steel and aluminum high pressure control gun with ergonomic grip. Maximum working pressure: 500 bar (7140 psi). Inlet thread: 1/4" BSP (F), outlet thread: 1/8" BSP (F)

413 077 - Grease control gun

Grease control gun with rigid stem and 3 jaw connector (121 050).

413 080 - Grease control gun

Grease control gun with rigid stem and 3 jaw connector (121 050) and Z swivel (414 300).

413 081 - Grease control gun

Grease control gun with double steel braid reinforced rubber hose (140 050) and 3 jaw connector (121 050).

413 082 - Grease control gun

Grease control gun with double steel braid reinforced rubber hose (140 050) and 3 jaw connector (121 050) and Z swivel (414 300).

414 100 / 414 300

GREASE CONTROL GUN SWIVELS



To handle grease hoses easily even at high pressure. For best results, use a straight swivel between the pump and distribution hose and a Z swivel between the hose and grease control gun. Maximum working pressure: 500 bar (7140 psi).

414 100 - Straight grease swivel. 1/4" BSP (MF)

414 200 - "L" grease swivel. 1/4" BSP (MF)

414 300 - "Z" grease swivel. 1/4" BSP (MF)

140 050 / 741 300

GREASE CONTROL GUN OUTLETS



741 306 - Rigid stem with 3 jaw hydraulic grease connector (121 001)

741 300 - Rigid stem with 3 jaw hydraulic grease connector (121 105)

140 050 - Double steel braid reinforced grease hose, 460 mm

741 304 - Rigid stem

740 247 / 945 590

CONNECTION ADAPTERS



For assembly of hoses, pumps and grease control handles. Working pressure: 500 bar (7140 psi)

PART N.º	TYPE	CONNECTION THREADS
945 590	Steel, 60° cones	1/4" BSP (MM)
945 553	Steel, 60° cone and tapered thread	1/4" NPT (M) - 1/4" BSP (M)
945 561	Steel, 60° cones	1/2" BSP (M) - 1/4" BSP (M)
945 594	Steel, tapered threads	1/4" NPT (MM)
740 247	Steel	1/4" BSP (MF)
945 516	Steel	1/2" BSP (M) - 1/4" BSP (F)
945 591	Steel	3/8" BSP (M) - 1/4" BSP (M)
945 693	Steel	1/8" BSP (M) - 1/8" BSP (M)

411 100

IN LINE GREASE METER



411 100 - In line grease meter

High pressure oval gear meter with digital display. Batch display in grams (up to 9999 gr) and permanent totaliser in kilograms (up to 999999 Kg). Batch display reset button. The meter can be easily calibrated in the field for maximum accuracy.

Works with two 1.5 V AAA alkaline batteries. Maximum pressure: 500 bar (7140 psi). Maximum flow range: up to 2 Kg/min (4.4 lb/min). Precision: $\pm 3,0$ %. Inlet outlet connections: 1/8" BSP (F). Includes one 1/8" BSP (MM) connector.

415 002

HOSE END METERS FOR GREASE

Hose end meter for accurate high pressure greasing.

Grease control gun fitted with high pressure in-line meter 411 100.

415 002 - High pressure hose end meter for grease

Includes double steel braid reinforced rubber hose with hydraulic grease connector and Z swivel.

415 000 - High pressure hose end meter for grease

Includes Z swivel. Without accessories.



363 075



OIL CONTROL GUNS

Aluminum body oil control gun with ergonomic design. NBR valve with progressive operation for comfortable operation even using 10:1 pumps. All guns include a ball bearing inlet swivel. Maximum working pressure: 105 bar (1500 psi). Maximum delivery: 25 l/min (6.6 gpm). Fluid inlet thread: 1/2" BSP (F).

MODELS PART N.º	APPLICATION	OUTLET TYPE INCLUDED	NON DRIP NOZZLE INCLUDED
363 082		None	None
363 075	Gear oil	110° rigid swiveling (369 217)	Manual
363 077	ATF (transmission fluid)	Straight flexible (369 200)	Manual
363 078	All type of lubricants	Flexible with 90° stem, swiveling (369 218)	Semi automatic
363 079	Motor oil	60° rigid (369 215)	Semi automatic

363 051



HIGH DELIVERY OIL CONTROL GUN

363 051 - High delivery oil control gun

High delivery oil control gun manufactured in aluminum. With double valve mechanism that allows small flow deliveries when the trigger is partially pressed and full flow delivery when the trigger is totally pressed. Lockable trigger and ball bearing inlet swivel. The handle includes a 60° angled rigid outlet with semiautomatic non drip nozzle. Maximum working pressure: 105 bar (1500 psi). Maximum delivery: up to 45 l/min (11.7 gpm). Fluid inlet thread: 3/4" BSP (F).

361 200



OIL BAR

361 200 - Oil bar

Oil dispensing bar for up to four products. Standard unit is supplied with one outlet and a one line meter can be mounted for metered delivery.

361 110 - Additional outlet valve for oil bars

OIL GUN ACCESSORIES

369 200



369 218



369 215



369 217



736 511



736 502



369 205



736 601



PART N.º	APPLICATION	OUTLET TYPE	NON DRIP NOZZLE INCLUDED
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Outlets for oil guns

369 217	Gear oil	110° rigid swiveling	Manual
369 200	ATF (transmission fluid)	Straight flexible	Manual
369 218	All types of lubricants	Flexible with 90° stem, swiveling	Semi automatic
369 216	All types of lubricants	Flexible with 90° stem, swiveling	Manual
369 215	Motor oil	60° rigid	Semi automatic

Outlet for high delivery oil gun 363 051

369 219	Lubricants	60° rigid	Semi automatic
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Non drip nozzles

- 736 511** Semiautomatic non drip nozzle.
- 736 502** Manual non drip nozzle.
- 736 522** Semiautomatic non drip nozzle. For use with 363 051 high delivery oil control gun.
- 369 205** 90° angled adaptor. For use with manual operated non drip nozzles.

Swivels

- 364 021** 3/4" BSP (F) oil inlet swivel. For use with 363 051 high delivery oil control gun.
- 736 601** 1/2" BSP (F) oil inlet swivel. For use with standard oil control guns.
- 836 404** Oil filter. To be placed between a hose and 1/2" swivel.

366 750

OIL METERS



366 750 - Oil in-line meter-litres

Oval gear meter with digital display. For use with lubricants up to SAE 140. Meter is powered by two easily replaceable AAA 1.5 V alkaline batteries. The meter has two separate displays in litres, a resettable 4 digit batch display and a permanent totaliser. Meters are factory calibrated but for maximum accuracy they can easily be calibrated in the field. Maximum working pressure: 105 bar (1500 psi). Oil flow range: 5 to 20 l/min (1.3 to 5.25 gpm). Fluid inlet and outlet threads: 1/2" BSP (F).

366 751 - Oil in-line meter-quarts

Similar as model 366 750 has partial reading in quarts and totaliser in gallons.

836 504 - Protective rubber shroud for oil in-line meters

365 603

HOSE END METERS



Oval gear hose end meter with digital display for measured delivery of lubricants up to SAE 140. Meter is powered by two easily replaceable AAA 1.5 V alkaline batteries. The meter has two separate displays in litres, a resettable 4 digit batch display and a permanent totaliser. Meters are factory calibrated but for maximum accuracy they can easily be calibrated in the field.

The meter is flange coupled to a durable but lightweight oil control gun that incorporates a rugged ball bearing inlet swivel with an inlet filter. All hose end meters are supplied with a protective rubber shroud.

Maximum working pressure: 105 bar (1500 psi). Oil flow range: 5 to 20 l/min (1.3 to 5.25 gpm). Fluid inlet thread: 1/2" BSP (F).

Models

PART NO	APPLICATION	OUTLET TYPE INCLUDED	NON DRIP NOZZLE INCLUDED	UNITS
365 601		None	None	Litres
365 605	Gear oil	110° rigid swiveling (369 217)	Manual	Litres
365 604	ATF	Straight flexible (369 200)	Manual	Litres
365 603	All type of lubricants	Flex. w/90° stem, swiveling (369 218)	Semi automatic	Litres
365 602	Motor oil	60° rigid (369 215)	Semi automatic	Litres
365 613	All type of lubricants	Flex. w/90° stem, swiveling (369 218)	Semi automatic	Quarts / gallons

365 652

HIGH DELIVERY HOSE END METER



365 652 - High delivery hose end meter-litres

Oval gear hose end meter with digital display for measured delivery of lubricants up to SAE 140. Meter is powered by two easily replaceable AAA 1.5 V alkaline batteries. The meter has two separate displays in litres, a resettable 4-digit batch display and a permanent totaliser. Meters are factory calibrated but for maximum accuracy they can easily be calibrated in the field.

The meter is coupled to a high delivery oil control gun that incorporates a rugged ball bearing inlet swivel with an inlet filter and 60° rigid outlet with semi automatic non drip nozzle. All hose end meters are supplied with a protective rubber shroud.

Maximum working pressure: 105 bar (1.500 psi). Maximum flow range: up to 25 l/min (6.5 gpm). Fluid inlet thread: 3/4" BSP (F).

365 652.300 - High delivery hose end meter-quarts

Similar as model 365 652 has partial reading in quarts and totaliser in gallons.

600 022



PRESET METERS

Preset oval gear hose end meter with digital display for measured delivery of service fluids. The delivery volume preset allows hands-off dispensing; saving time and money as the handle shuts off automatically once the preset volume is dispensed. Meter may be used as a preset or a manual meter.

Equipped with a resettable totaliser and a permanent totaliser. Meter can count in liters, quarts, gallons or pints. The gun trigger has a safety lock that prevents accidental operation of the trigger and it can be locked in the open position.

Meter works with one 9V alkaline battery, type 6LR61. Flow range from 1,5 to 15 l/min (0.4 to 3.9 gpm). Maximum working pressure: 50 bar (715 psi). Accuracy ± 1 %. Inlet thread: 1/2" BSP (F), outlet thread: 1/2" BSP (M). Ball bearing swivel with filter included.

600 021 - Preset meter

Includes a flexible outlet with a swivelling 90° stem, swiveling, and a semiautomatic non drip nozzle.

600 022 - Preset meter

Includes a 60° rigid outlet, and a semiautomatic non drip nozzle.

HOSE END METER SUBJECT FOR APPROVAL.

600 102 - Hose end meter subject for approval

Oval gear hose end meter with digital display subject for approval by Weight and Measures authorities. Equipped with a resettable totaliser and a permanent totaliser. Complete with flex outlet with 90° stem and automatic non drip nozzle and inlet swivel with filter. Meter can be used with lubricants and antifreeze (glycol).

HOSE END METERS ACCESSORIES

369 200



369 218



369 215



369 217



736 511



736 502



369 205



736 601



Hose end meter outlets

PART NO	APPLICATION	OUTLET TYPE	NON DRIP NOZZLE INCLUDED
Outlets for hose end meter 365 601			
369 217	Gear oil	110° rigid swiveling	Manual
369 200	ATF (transmission fluid)	Straight flexible	Manual
369 218	All types of lubricants	Flexible with swiveling 90° stem	Semi automatic
369 216	All types of lubricants	Flexible with swiveling 90° stem	Manual
369 215	Motor oil	60° rigid	Semi automatic

Outlet for high delivery hose end meter 365 652 and 365 652.300

369 219	Lubricants, high delivery	60° rigid	Semi automatic
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Outlets for preset meters

609 000	All types of lubricants	Flexible with 90° stem, swiveling	Manual
609 001	Motor oil	60° rigid	Semi automatic

Outlet for hose end meters subject for approval

609 002	All types of lubricants	Flexible with 90° stem	Automatic
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Non drip nozzles

736 511	Semiautomatic non drip nozzle.
736 512	Manual non drip nozzle
736 522	Semiautomatic non drip nozzle. For use with 365 652 and 365 652.300 high delivery hose end meters.
609 006	Automatic non drip nozzle
369 205	90° angled adaptor. For use with manual operated non drip nozzles.

Swivels

364 021	3/4" BSP (F) oil inlet swivel. For use with 365 652 and 365 652.300 high delivery hose end meters.
736 601	1/2" BSP (F) oil inlet swivel. For use with standard hose end meters.
364 022	1/2" BSP (F) oil inlet swivel. For use with preset meters and meters subject for Weight and Measures approval.
836 404	Oil filter. To be placed between a hose and 1/2" swivel.

186 300

FLUID CONTROL GUNS



186 300 - Fluid control gun

Control gun with composite body and stainless steel valve mechanism for use with fluids like windshield washer, glycol solution and other water based fluids. Includes inlet swivel and flexible outlet with 90° stem. Maximum working pressure: 40 bar (570 p.s.i.). Maximum flow: 15 l/min (4 gpm). Inlet threads 1/2" BSP (F).

365 675

HOSE END METER FOR FLUIDS



365 675 - Hose end meter for fluids

Oval gear hose end meter with digital display for measured delivery of fluids such as windshield washer, glycol solution and other water based fluids. Meter is powered by two easily replaceable AAA 1.5 V alkaline batteries. The meter has two separate displays in litres, a resettable 4 digit batch display and a permanent totaliser. Meters are factory calibrated but for maximum accuracy they can easily be calibrated in the field.

The meter is coupled to a fluid control gun 186 300.

Maximum working pressure: 40 bar (570 p.s.i.). Flow range: 5 to 15l /min (1.3 to 4 gpm). Fluid inlet thread: 1/2" BSP (F).

366 725 / 366 726

HIGH FLOW IN LINE METERS



Oval gear in line meters with digital display. The meter has two separate displays in litres, a resettable 4 digit batch display and a 6 digit permanent totaliser. Meters are factory calibrated but for maximum accuracy they can easily be calibrated in the field.

Meters are compatible with lubricants up to SAE 240, diesel, glycol solutions and other water based fluids.

366 725 - High flow in line meter - 50 l/min

Works with two AAA alkaline batteries.
 Maximum working pressure: 70 bar (1.000 psi).
 Maximum working temperature: 60° C (140° F).
 Flow range: minimum flow rate 5.5 l/min (1.45 gpm); maximum flow rate 50 l/min (13.2 gpm).
 Accuracy: +/- 0.5 %.
 Pressure drop: 0.5 bar (7 psi).
 Inlet and outlet threads: 1/2" BSP (F).



366 726 - High flow in line meter - 100 l/min

Works with two AAA alkaline batteries.
 Maximum working pressure: 30 bar (430 psi).
 Maximum working temperature: 60° C (140° F).
 Flow range: minimum flow rate 9.5 l/min (2.5 gpm); maximum flow rate 100 l/min (26.4 gpm).
 Accuracy: +/- 0.5 %.
 Pressure drop: 0.5 bar (7 psi).
 Inlet and outlet threads: 1" BSP (F).

CONTROL MASTER ELITE



Control Master Elite is a modular fluid management/security system. It can be used to cover applications from a small single access point keypad controlled system through to a multi-dispense point, multi-access, P.C. linked system.

There are four levels of system available:

Entry Level:

1- Alphanumeric access keypad network linked to an I/O control unit, controlling up to 8 dispense points of up to 8 different products with simultaneous dispensing on a freeflow or preset basis.

Transaction/ report data is produced via an A4 80 column printer linked to the keypad. Access is by PIN only. Four security PIN levels are incorporated to allow product dispensing, access to management data, product/stock set up and system configuration.

1,900 product transactions can be stored in the I/O unit RAM which is battery backed for protection in the event of power failure.

Intermediate Level:

As Entry Level but with multiple unit network operation with up to 16 - I/O control units for up to 128 - dispense points of 16 different products. Up to 100 keypads can be incorporated along with additional transaction/report printers, transaction ticket printers and bar code readers.

P.C. Level:

As Entry and Intermediate Levels but with a network linked interface to a suitable P.C. Performs all the functions of the other levels with Windows based software to provide enhanced reports with on-screen viewing and additional data storage on the P.C.

P.C. Level With Link To Dealer Management Systems:

As P.C. Level but with additional software to allow data movement from the Elite System to Dealer Management Systems for passing fluid usage against individual service/repair orders. This level requires the provider of the Dealer Management System to establish a protocol for work validation and data transfer to be established before the system can be integrated.

This is currently available with Kerridge Autoline Version 8.

Other systems are under review and as they become available for integration information will be circulated to advise our equipment distributors.

Technical Data:

Power Supply.

Control Master Elite operates on a 24VDC.

A power supply unit is required for each I/O control unit.

Voltage input: 210/240 v, 50 Hz.

Network

Two wire canbus communication.

System Specification

I/O control units	maximum 16.
Keypads	maximum 100.
Solenoid valves	maximum 128.
Pulse meters (single channel)	maximum 128.
Fluid grades	maximum 16.
Operator PIN's	maximum 99.

Note: On managed oil systems it is recommended that oil line pressure relief valves are fitted for each product to prevent damage to solenoid valves and pulse meters caused by pressure rises due to temperature increases and over pressurization of pumps.

System Components

380 152	I/O control unit.	389 001	Solenoid valve (24 VDC).
380 152 K	I/O control unit (Kerridge).	366 302	Pulsemeter (100 PPL).
380 199	Power supply unit.	600 281	Pulsemeter (328 PPL).
380 401	Keypad.	PKDC(100)	Pulser/solenoid kit (100 PPL).
380 401 K	Keypad (Kerridge).	PKDC(328)	Pulser/solenoid kit (328 PPL).
380 301	P.C.Interface.	951 456	Pressure relief valve.
380 301 K	P.C.Interface (Kerridge).	PRVKIT1	Pressure relief valve kit (3:1 pumps).
380 201	A4 80 column printer.	PRVKIT2	Pressure relief valve kit (3:1 & 5:1 high volume pumps).
380 200	P40 ticket printer.		
389 207	Printer connection cable.		