

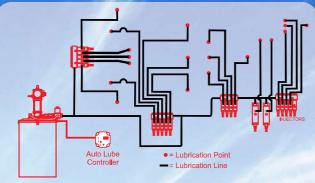


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LUBRICATION SYSTEMS



Grease Pump Station



ETI LUBRICATION PRODUCTS:

- * ETI Lubrication Products are all fully manufactured to the highest quality by ETI in Magelang, Central Java.
- * Grease Canisters are manufactured with low-level alarm, to AS1210 as a Certified Pressure Vessel.
- * ETI POWER CHIEF Hydraulic Pumps are ideally suited to Dump Trucks, Excavators, Graders and Dozers alike 10 cc/cycle with pressure ratio 16:1.
- * ETI POWER RANGER Hydraulic Pumps are ideally suited for the largest of Excavators and machinery requiring higher grease flow rates 21 cc/cycle with pressure ratio 10:1.
- * Auto—Lube Systems can be set up in larger capacity canisters in Dual—Pump configuration with alarm and manual operator electric change-over control.
- ETI Grease Injectors are fully adjustable with both ETI Injectors and Manifolds being interchangeable with Lincoln.
- * Covered by a full 1 YEAR INTERNATIONAL WARRANTY against manufacturer's defect.



GREASE PUMP STATIONS

ET POWER CHIEF

HYDRAULIC GREASE PUMP STATION

Ideally suited for auto-lube systems on dump trucks, graders dozers & excavators

Actuator Specifications:

- Hydraulic input oil flow rate
- Hydraulic input oil pressure
- Output Pressure
- Operating Voltage
- **Operating Temperature**
- Maximum Hydraulic oil temperature
- Hydraulic Inlet Port
- Hydraulic Tank Return Port
- **Pump Outlet**
- Pressure Reducing Valve Setting
- Maximum Cycle Rate
- Leg Size

Pump Table Specifications:

- **Output Per Cycle**
- Pressure Ratio

Factory Setting:

Pump Output

- : 0.25 3.0 LPM : 20 200 Bar
- 300 Bar
- : 24 VDC
- : -10°C to +60°C
- 90°C 7/16" JIC
- 9/16" JIC
- : 1/4" BSP
- : 41 bar (600 psi)
- 60 CPM
- : 51 cm
- : 10.0 cm3 per cycle
- : 150 cm3 per minute



POWER CHIEF



POWER RANGER

ETT POWER RANGER HYDRAULIC CREASE PUMP STATION

Developed for high cycle rate applications on large excavators and

mining equipment

Actuator Specifications:

- Hydraulic input oil flow rate
- Hydraulic input oil pressure Output Pressure
- Operating Voltage Operating Temperature
- Maximum Hydraulic oil temperature
- Hydraulic Inlet Port
- Hydraulic Tank Return Port
- **Pump Outlet** Pressure Reducing Valve Setting
- Maximum Cycle Rate
- Leg Size

Pump Table Specifications:

- Output Per Cycle Pressure Ratio

Factory Setting:

Pump Output

- : 11 LPM
- 20 200 Bar
- : 300 Bar
- **24 VDC**
- : -10°C to +60°C
- : 90°C
- : 7/16" JIC
- : 9/16" JIC
- : 1/4" BSP
- 41 bar (600 psi) 60 CPM
- : 51 cm
- : 21.0 cm³ per cycle
- : 10:1
- : 319.5 cm3 per minute



CREASE FILTER

with reusable element





ETI Hydraulic Grease Pump Station Features:

1. Pressure Certified Grease Canister with inspection hatch.

- Canister is built to an Australian Standard AS1210
- Manufactured in High Grade 304 Stainless Steel or Carbon Steel
- Hatch can be removed to verify canister cleanliness - Hatch can be changed to accommodate various pumps
- Canister available in various sizes

- No overflow to ground
- Grease flow stopped automatically when canister is full
- Saves time and grease
- Installed in tank out of the way

- Failsafe device preventing canister becoming pressurised

4. Grease Filter

- Easy maintenance, reusable filter
- 300 micron mesh element
- Installed in tank and out of the way



VENTVALVE

EL-1 INJECTOR

ETI Grease Injectors are fully adjustable with both ETI Injectors and Manifolds being interchangeable with Lincoln.

Type EL-1 (P/N: MGP-EL-1-ASSY)

Minimum operating pressure
Maximum operating pressure Recommended operating pressure ...
Reset Pressure (at the pause time) ...
Output volume per cycle... Wetted parts

Recommended fluids



. 1850 psi (12.7 MPa, 127 bar) . 6000 psi (41 MPa, 413 bar)

Output volume per cycle .

Recommended fluids ...

EL-G INJECTOR

ETI Grease Injectors are fully adjustable with both ETI Injectors and Manifolds being interchangeable with Graco GL-1.

Type EL-G (P/N: MGP-EL-G-ASSY) , 1850 psi (12.7 MPa, 127 bar) ... 3500 psi (24 MPa, 241 bar) ... 2500 psi (17 MPa, 172 bar) Minimum operating pressure Maximum operating pressure Recommended operating pressure Reset Pressure (at the pause time)
Output volume per cycle 600 psi (4.1 MPa, 41 bar)

...... 1,25 cc carbon steel, stainless steel, copper Wetted parts

N.L.G.I. 0 up to N.L.G.I 2 Recommended fluids Temperature.

MANIFOLDS

ETI Manifolds available in builds to accom 1 to 6 injectors individually.

EL-V-XL INJECTOR

ETI Grease Injectors are fully adjustable with both ETI Injectors and Manifolds being interchangeable with Lincoln.

Type EL-V-XL (P/N: MGP-EL-V-XL-ASSY)

Minimum operating pressure ... Maximum operating pressure 1850 psi (12.7 MPa, 127 bar) 6000 psi (41 MPa, 413 bar)

Wetted parts

carbon steel, stainless steel, copper, fluoroelastomer N.L.G.I. 0 up to N.L.G.I 2 Recommended fluids Temperature.....

ETÌ EL-LBH INJECTOR

ETI Grease Injectors are fully adjustable with both ETI Injectors and Manifolds being interchangeable with Lincoln. Type EL-LBH (P/N: MGP-EL-LBH-ASSY) Minimum operating pressure Maximum operating pressure

(ASST) 1850 psi (12.7 MPa, 127 bar) 6000 psi (41 MPa, 413 bar) 2500 psi (17 MPa, 172 bar)) ... 1000 psi (6.9 MPa, 69 bar) Recommended operating pressure ... Reset Pressure (at the pause time) ... Output volume per cycle 5.25 cc

A full range of ETI Injectors and Manifolds are available and designed to be interchangeable with the Lincoln brand of injectors and manifolds. The ETI Lubrication range of injectors and Lincoln equivalents are as detailed:

ETI LUBRICATION LINCOLN SL-1 SL-V SL-V-XL LIEBHERR INJECTOR

Note - also available a complete range of ETI manifolds to suit both brands in sizes designed to accommodate a single injector up to a combination of six injectors.

TINGE TO

The ETI Lubrication range of injectors and Graco equivalents are as detailed

ETILUBRICATION GRACO GL-1



AUTOLUBE CONTROLLER

Input Voltage

High Quality Poly Butylene Terephthalate (PBT) Protection Structure to IP67 12 - 24 V DC Buzzer - 85 dB @ 1 meter LED with > 3000 lux and 3r

Timer (Seven Segment)





GREASE CANISTER

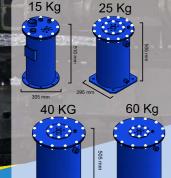
ETI Grease Canister available in size of 15 Kg, 25 Kg, 40 Kg, 60 Kg, 200 Kg, 350 Kg and 680 Kg.

CANISTER BUILD SPECIFICATIONS:

WALL CONSTRUCTION = 3 mm (for 15 Kg, 25 Kg, 40 Kg, 60 Kg and 200Kg) / 5 mm (for 350Kg) / 10 mm (for 680 Kg)

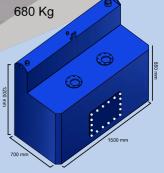
- PAINT FINISH 4 x Coats 2 pack Epoxy Resin
- LOW-LEVEL INDICATOR (Optional)— Electrical Low Level Pressure switch internally mounted and wired to the ETI Pump Controller.
- CERTIFIED PRESSURE VESSEL Certified to AS1210





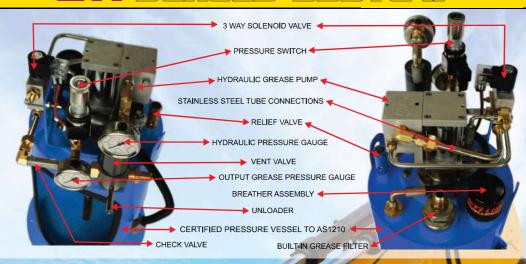
428 mr

350 Kg 200 Kg 890 850 mm 590 mm

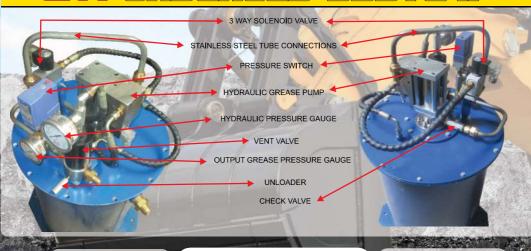


Auto-Lube Systems can be set up in larger capacity canisters in Dual-Pump configuration with alarm and manual operator electric change-over control.

ET SERLED SUSTEM



ET Unsealen system





PT. ETI FIRE SYSTEMS ENGINEERED FIRE PROTECTION

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