

Lubrication Solutions

Content

Predict – Protect – Perform, when it comes to fluids, we can handle it.

Since 1926, Graco's core line of lubrication equipment transfers, meters, dispenses and monitors both lubricants and fuels in service shops around the world. In addition, Graco offers complete systems to automate the lubrication process, improving equipment life and reliability.

Sit back and relax, while you get the best:

- Automate and drive efficiencies of your maintenance practices;
- Handy solutions to streamline workflows in your service centers.

Graco lubricates your equipment automatically so you can stay focused on your job.

SERVICE AND MAINTENANCE LUBRICATION EQUIPMENT



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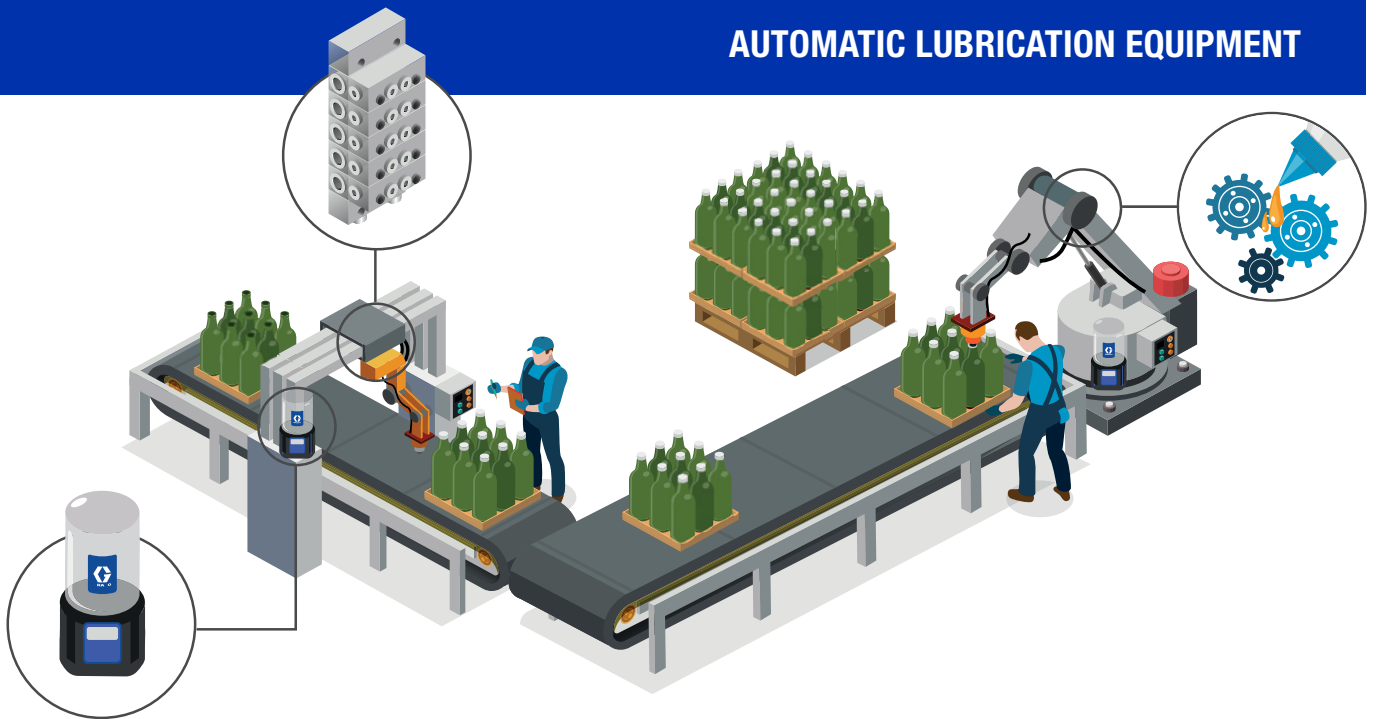
Fluid Management & Control p. 4-5
 Fluid Dispense, Transfer & Reclaim p. 6-9

AUTOMATIC LUBRICATION EQUIPMENT

Centralized Lubrication p. 10-11
 Single Line Parallel and Series Progressive Systems..... p. 12-13
 Gas Compression Lubrication Equipment p. 15

- For the complete product offering of Service and Maintenance Lubrication Equipment, please refer to the PMG Buyer's guide (303245)
- For the complete product offering of Automatic Lubrication Equipment, please refer to the ILE Buyer's guide (340821)

AUTOMATIC LUBRICATION EQUIPMENT



OIL



GREASE



AIR



WASHER FLUID



GEAR LUBE



FUEL



WATER



OIL / WASTE OIL



ATF



PRESSURE WASH

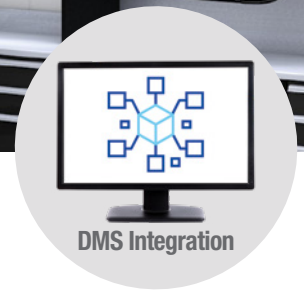


ANTI-FREEZE



DIESEL EXHAUST FLUID (DEF)

Fluid Management



WHY FLUID MANAGEMENT OR CONTROL?

Fluid management is about solving the “five W’s” concerning your fluid inventory - track who performed a fluid dispense; what quantity of specific fluid was dispensed; where in the facility the oil or fluid dispense took place; when it occurred and why.

PULSE™ PRO

Pulse Pro Fluid Management is breaking the bounds of traditional fluid inventory control. It offers advanced wireless technology equipment to dispense and track bulk fluids, capture analytics and automate reports.

▶ PULSE HUB



Self-contained wireless device that communicates with all components. Includes everything necessary for users to instantly access monitoring and reporting tools on PC, tablet or smartphone.

▶ PUMP AIR CONTROL (PAC)



Prevent unauthorized access to fluid inventory. Pump operation is enabled only when a dispense as been activated from the meter and Pump air supply is shut off automatically after the dispense

▶ TANK LEVEL MONITOR (TLM)



Measure your largest tanks accurately with minimal effort. The monitor’s ultrasonic sensor records the tank level and can be configured to e-mail a daily report to key stakeholders detailing tank volumes, low- or high-level warnings and more.

▶ EXTENDERS & REMOTE EXTENDERS



Easily expand the Pulse network to accommodate devices in secondary on-site buildings. Connect devices to wall power and local network via Ethernet or Wi-Fi.

▶ PULSE METER



Fluid Control



PULSE™ FC

Pulse FC Fluid Control provides service operations with accuracy and command to automate and regulate fluid dispenses.

▶ PULSE FC SOFTWARE



Accurately track the amount of fluid dispensed. Data is captured automatically. Simple reports including fluid levels and dispenses can be printed at any time to make fast, informed decisions regarding billing, inventory, staffing and more.

Durable built to last meter with built-in solenoid. Enter PINs, work order numbers and other data via a larger, more intuitive display or use NFC tags for immediate access.

SD Meters used for Pulse FC.

▶ PULSE FC PROGRAMMER



Fluid control system designed for fast, wire-free setup and configuration. Easily pre-program Pulse FC fluid cards to dispense only the correct fluid and authorized amount, minimizing dispense errors and gaining optimal profitability.

▶ ROLL AROUND

Accurately control your mobile drums and monitor the dispense of expensive synthetic and semi-synthetic fluids with fitted Pulse components.

▶ PULSE FC FLUID CARDS



Simply scan pre-programmed fluid cards on the meter's interface screen to begin dispensing. Once the pre-programmed amount of fluid has been dispensed, the meter stops automatically. See the exact amount of fluid pumped on the easy-to-read LCD screen.



Fluid Dispense

| GARAGE WORKSHOP |

PUMPS

▶ FAST-BALL™



Dependable air-powered transfer pump ideal for lower-volume, short-run transfers. Features in-line design with fewer parts.

- Annual usage: up to 19,000 l
- Flow rate: 19 lpm: free flow at 6.9 bar
- Line Length: <30m
- Ratio for oil 1:1
- 5 years warranty

▶ LD SERIES



High performance dispense pumps ideal for low-to medium-volume transfers. Durable solution with flexible configurations.

- Annual usage: 75,000 l for oil, 3200 kg for grease
- Flow rate: 29lpm-34 lpm
- Available in 3:1, 5:1 for oil and 50:1 for grease
- 5 years warranty

HOSE REELS

▶ LD SERIES



Economical enclosed hose reel, which gets up and running fast. Designed to dispense water, anti-freeze, windshield wash, oil and grease.

- Flexible mounting options
- Full-flow swivel maximizes fluid flow
- Easy spring tension adjustment
- Hose length 11m-15m
- 5 years warranty

METERS & VALVES

▶ ACCU-SHOT & PRO SHOT METER



Accurate, electronic meters designed for daily use. Offering exceptional measurement and control of grease delivery.

- Non-metered and metered options
- Multiple adapters available
- Accu-shot: Max. Pressure: up to 345 bar
- Pro Shot: 552 bar working pressure
- 1 year warranty

▶ LD SERIES



Electric and in-line dispense meters ideal for low to medium duty application. For petroleum- and synthetic-based oils and anti-freeze mixtures.

- Indoor use
- Multiple extensions available
- Flow rate: up to 19 lpm
- Max. pressure: up to 69 bar
- Automatic option only
- 7 years warranty

HEAVY DUTY / INDUSTRIAL WORKSHOP

FIRE-BALL™



Trust-worthy air-powered piston pump designed for high pressure transfers - oil or grease.

- Flow rate: 50 lpm
- Available in 3:1, 5:1, 6:1, 10:1 for oil and 10:1, 15:1, 50:1, 75:1 for grease
- 7-10 years warranty

GT 750™



Reliable high volume, high pressure grease transfer pump for challenging applications.

- Flow rate: 14.5kg/min
- Multiple tank options
- Available in 36:1
- 5 year warranty (1 year on wear parts)

NXT™



Robust bulk fluid transfer pump, ideal for fast and high volumes. Includes data track control.

- Flow rate: up to 117 lpm
- Fluid pressure: up to 119 bar for oil and 380 bar for grease
- 10 years warranty

SD SERIES



Professional, durable hose reels designed for continuous daily use. For water air, oil or grease.

- Multiple mounting options
- Durable steel pool and open swivel port
- Long-lasting spring
- Hose length: 11m-20m
- 7 years warranty

XD SERIES



Superior-performance hose reels, designed for high pressure flows. Durable long-life design compatible with different fluid types.

- Durable steel - dual pedestal frame option
- Long lasting spring with easy rewind
- Motor driven as of XD60
- Hose length: 11m-50m
- 7 years warranty

SD METER



Efficient electric, mechanical and in-line meters and valves ideal for metered oil and grease dispense for standard and heavy-duty applications. For petroleum- and synthetic-based oils.

- Manual and preset models
- Multiple extensions available
- Flow rate: up to 53 lpm
- Max. pressure: up to 103 bar
- 7 years warranty

EM METERS



High flow, electric, manual dispense meters. Featuring high-flow mechanical and in-line options. High pressure protection for all weather conditions. For petroleum- and synthetic-based oils.

- Indoor or outdoor use
- Multiple extensions available
- Flow rate: up to 76 lpm
- Pressure: up to 102 bar
- IP69k rated
- Lock-on trigger
- 5-7 years warranty

| STANDARD TO HEAVY USAGE |

PUMPS

▶ ADBLUE MANUAL



Lightweight and reliable, LD Blue manual hand pump for small Diesel Exhaust Fluid (DEF) applications.

- Fast delivery capable of 11 oz per stroke
- Adjustable telescoping down tube

▶ ADBLUE ELECTRIC



Reliable, industrial pump with self-priming capabilities

- 120V or 12V electric options
- Flow rate: 36 lpm (9.5 gpm)

▶ ADBLUE PNEUMATIC



Superior-performing pump for fluid transfer, capable of higher output over longer runs.

- Long lasting, trouble free operation
- Powerful design for money saving efficiency
- Flow rate: 27 - 104 lpm (7-275 gpm)
- 5 years warranty

HOSE REELS

▶ ADBLUE HOSE REEL



Robust heavy-duty hose reel designed for DEF application.

- Durable steel - dual pedestal frame option
- Long lasting spring with easy rewind
- Hose length: 11m-50m

METERS & VALVES

▶ ADBLUE METERS



Easy to install DEF meter for continuous usage.

- In-built meter option
- Nozzle flow rates up to 45 lpm (12 gpm)
- Max. pressure: 3.4 bar (50 psi)
- Meter flow rates up to 99 lpm (26.4 gpm)

Fluid Reclaim / Waste Oil

| STANDARD USAGE |

PACKAGES

▶ OIL KING



Used-fluid containers for the collection of petroleum lubricants or antifreeze.

- Large funnel: can collect fluids from both a drain plug and a filter port at the same time.
- Capacity 90 l and 94,6 l
- 5 years warranty

▶ COOLANT KING



Bulk fluid recipient for the collection of coolants.

- Color-specific receiver for easy identification
- Large gauge - 94.6 l
- Convenient tools and filter trays
- 5 years warranty

PACKAGES

▶ OIL ACE™



Robust package for fluid reclaim.

- Large offset collection pan with screen
- Easy to drain using pressurized shop air
- Large 91l capacity with attached sight gauge
- 5 years warranty

PUMPS

▶ HUSKY DOUBLE DIAPHRAGM PUMP



- Long lasting, trouble free operation
- Powerful design for money saving efficiency
- Flow rate: 27 - 1041 lpm
- 5 years warranty

Centralized Lubrication



Graco's automatic lubrication solutions ensure that your machinery is lubricated when its needed most – while it's working. In order to avoid friction that cause severe wear and tear to your machine tool, production and press equipment, our line of centralized lubrication systems is delivering precise amounts of lubricants at frequent intervals to every lube point – even if they are hard to reach.

MAIN COMPONENTS FOR AUTOMATIC LUBRICATION

PUMPS & RESERVOIRS: store and provide the lubricant to the system

CONTROLLER: activates the system

DIVIDERS: dispenses the right amount of lubricant to the application point

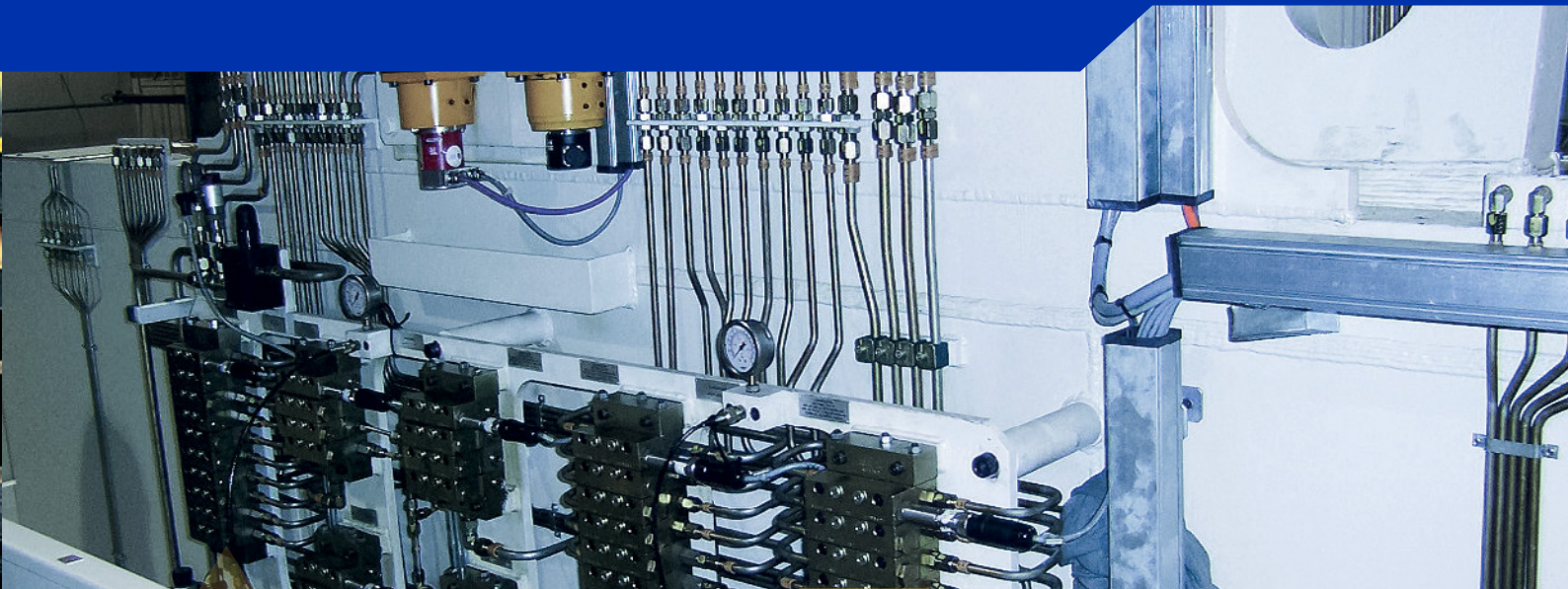
| SINGLE LINE PARALLEL SYSTEMS |

A single line parallel system is the simplest automatic lubrication system. A pump pressurizes a main supply line and fills a number of individual piston distributors or injectors. Each injector serves one lubrication point and can be easily adjusted to deliver a precise amount of lubricant with a high degree of accuracy.

The injectors operate independently of each other. The advantage of this is that failure of an individual injector, or a blocked supply line, does not disrupt the rest of the system.

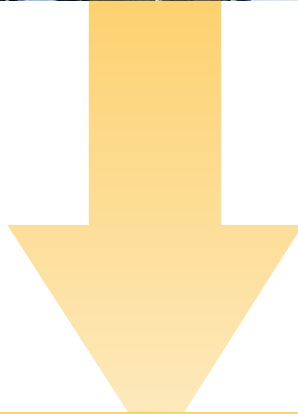
BENEFITS

- Basic monitoring with pressure switch ensures the system is operating properly
- Designed for higher pressures to handle a wide variety of lubricants up to NLGI #2 as well as oil
- Different sized injectors give you a wide output range to lubricate any size bearing
- One-to-one relationship between the metering device and the lube point for precision dispensing



INCREASE

PRODUCTIVITY
RELIABILITY
AVAILABILITY
SAFETY
DURABILITY



DECREASE

HEAT GENERATION
WEAR & NOISE
DOWNTIME & OPERATING COSTS
PRODUCT CONTAMINATION & CORROSION
MAINTENANCE
LUBRICANT CONSUMPTION

| SERIES PROGRESSIVE SYSTEMS |

In a series progressive system, a pump supplies the lubricant through a master metering valve and optional secondary metering valves to the lubrication points. The metering valves are custom sized for each lubrication point to deliver the exact amount of lube required.

Each piston inside a divider block is dependent on the flow of the previous piston. Lubricant is therefore delivered to each lube point in succession. This means that if lubricant reaches the final lube point in the network, you know that each point in the network has received its specific amount.

BENEFITS

- Large number of outputs to handle a full range of oils and greases
- Most advanced and precise monitoring with overall system diagnostics plus troubleshooting at the lube point
- With a zone valve you can decide where and when to lubricate
- Covers the broadest range of small to large applications

Single Line Parallel Systems

| INDUSTRIAL AND OFF-ROAD APPLICATIONS |

PUMPS

▶ LUBEPRO™



Robust solution where high output and fast lubrication cycles and flow rates are needed.

- Multiple versions available
- Fast cycle rate and flow
- High-strength, shatter resistant reservoir

▶ DYNA-STAR



Reliable heavy-duty pump for bulk fluid transfer.

- Multiple options available; pneumatic, electric or hydraulic
- Built-in pressure relief for safety and efficient installations
- Multiple reservoir options available
- IP69k rated

METERING DEVICE

▶ GL - 32/42 & GL - 33/43



Accurate, reliable lubrication injector. Add or subtract lube points without having to redesign your lubrication system.

- Output GL 33 & 42: 0.05 cc
- Output GL 32 & 43: 0.13 cc

▶ GL - 1, GL1 - X & XL



Trustworthy lubrication injector. High volume output at high pressures for the most demanding applications.

- Output GL1 - XL: 5 cc
- Output GL - 11: 8.2 cc

CONTROLLER

▶ GLC - 4400



Multipurpose controller for automatic lubrication. Programme lubrication timing, cycles counts, pressure, etc.

For injector-based and series progressive systems

- Protection class IP 69K
- Operating temperatures: * -40°C to 63°C
- AC and DC version available

Series Progressive Systems

| INDUSTRIAL AND MOBILE APPLICATIONS |

▶ G SERIES



Robust, high-value pump designed for multiple applications and industries. Five different reservoir sizes; four controller options; three power types and adjustable pump elements.

- Customizable options
- Max. Pressure: up to 352 bar
- 4cc/minute per pump element
- Mix/match cycle and pressure switches

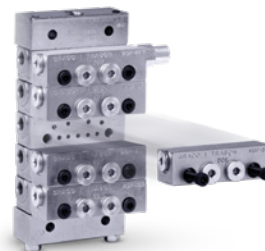
▶ CSP DIVIDER VALVE



Compact Series Progressive valve with broad application use. Precise dispense of lubricant to application points.

- Inlet sizes 1/8 NPT and 1/8 BSPP
- Design with 6 to 22 outlets,
- High output Pressure: up to 350 bar
- Built-in durability with Zinc Iron plating

▶ MSP DIVIDER VALVE



Modular divider valve that sets the industry standard for quality and reliability. Adjustable output with easy-to-use design.

- Fully accessorized with magnetic and electronic proximity switch cycle indicators
- Built-in outlet check valves
- Available in carbon steel or 303 stainless steel

▶ GLC - 2200



Versatile controller for automatic lubrication. Precise customization of lubrication timing, cycles counts, pressure, etc.

For injector-based and series progressive systems

- Protection class IP 54
- Operating temperatures: -40°C to 80°C
- Power: up to 12 to 24 volt

Other systems

| ON-ROAD APPLICATIONS |

PUMPS

▶ GREASE JOCKEY



Simplified, efficient automatic lubrication system for vehicle maintenance. Elongate component life-span through continual lubrication of chassis. For grease application only.

| OTHER INDUSTRIAL PUMPS |

PUMPS

▶ LUBE MASTER



Built for severe-duty environments and demanding applications. Easily customizable. Several reservoir choices and accessories.

For oil or grease up to NLGI #2

▶ MODU-FLO



Easy mix and match lubrication system to minimize downtime. Modular design with adjustable pump output.

For oil and grease up to NLGI #2

▶ INJECTO-FLO



Dependable and versatile pump for years of trouble-free operations. Easy to program internal controller with LED alarm. Built-in vent.

For oil - 50 - 100 cst and fluid grease NLGI #000

Gas Compression

| MANZEL |

BOX LUBRICATORS

► GBL 7500 MECHANICAL PUMP

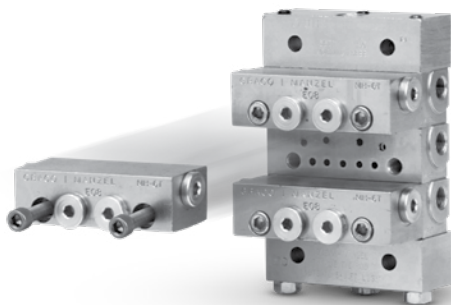


Rugged, high-performance force feed pumps & box lubricators. Engineered for long-life, maximum flexibility and easy system integration.

- Heavy-duty cage and shatter-proof glass design
- Soft-seal O-ring construction - reduced contamination
- Stainless steel piston and spring
- Piston sizes - 3/8, 1/4 and 3/16 inches
- Output pressure up to 517 bar

METERING DEVICE / DIVIDER VALVE

► MHH DIVIDER VALVES



Manzel divider valves for use in series progressive systems where high pressure is required

- Modular, stackable sub-plate design
- Built-in check valves
- SAE or NPSF inlet and outlet connections
- Up to 16 lube points from one divider assembly
- Pressure up to 517 bar

ACCESSORIES

► LOW LEVEL ALARM



Shaft rotation low-level alarm. Rugged construction for high durability

► LUBE-LINE ALERT



Indicates Flow or No-Flow at any point in the system ahead of the Lube-Line Alert inlet

► SENTRY VALVE



Provides automatic warning and shutdown of compressors, pumps and engines when oil is not flowing properly to primary divider valves

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