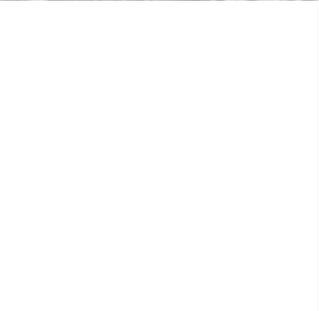




Industrial Lubrication Equipment

Solutions for Industrial and Commercial Applications



Industrial | Off-Road | On-Road | Mining | Construction | Energy | Oil and Gas

PROVEN QUALITY. LEADING TECHNOLOGY.



ALWAYS ON. ALWAYS INNOVATING.™

Use Graco Auto Lubrication Systems to increase uptime, improve productivity and reduce maintenance costs in any environment. Always innovating, Graco offers a comprehensive collection of pumps, metering valves,

controllers and accessories for accurate and timely lubrication for today's modern, information-rich users – all backed by Graco's trusted name and responsive A+ customer support.

Industrial | Off-Road | On-Road | Mining | Construction | Energy | Oil and Gas

Graco Offers Solutions For:

In-Plant Applications

Graco Auto Lubrication systems extend equipment life cycles and improve productivity for a wide range of in-plant applications, including food production, plastics, electronics, automotive, paper, metal and more.



Energy, Infrastructure and Heavy Equipment Applications



Off-Road

A fast-growing market, off-road applications, including wheel loaders, haul trucks and more, require Graco Auto Lubrication to ensure they operate consistently onsite with less maintenance and fewer repairs.

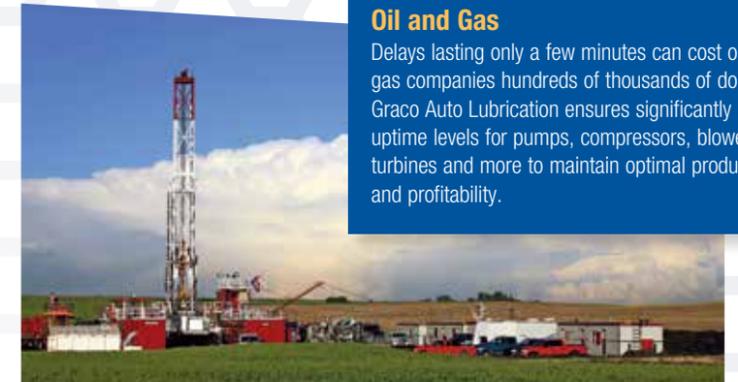


Construction

Facing tight deadlines, the construction industry requires equipment ready to work when crews are. Graco Auto Lubrication extends the life cycle of bulldozers, diggers and other machinery, while expediting maintenance tasks, so construction can better adhere to schedules.

Oil and Gas

Delays lasting only a few minutes can cost oil and gas companies hundreds of thousands of dollars. Graco Auto Lubrication ensures significantly higher uptime levels for pumps, compressors, blowers, turbines and more to maintain optimal productivity and profitability.



Vehicle Service Applications

Transporting products and people consistently and economically requires always-available vehicles. Graco Auto Lubrication enables these trucks, trailers, buses and other vehicles to run optimally with fewer maintenance issues.



Energy

Use Graco Auto Lubrication on gears, pivots and other components, so wind turbines and other machines perform reliably amid even the most adverse environmental conditions.



Mining

A rugged and arduous industry, mining requires large equipment managing heavy workloads. With large crews in an industry full of risk, Graco Auto Lubrication enables equipment to surpass lofty industry operational standards consistently.



Graco Resources

Graco has developed tools and resources to help educate and better serve our customers. Check them out today:

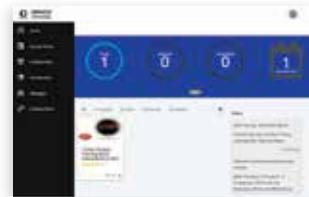


Graco.com

Graco's website delivers a next-generation web experience for our customers from any device, anytime, anywhere.

The intuitive navigation and product filters allow you to easily search and access products and solutions for a seamless experience. Search for a distributor, compare products side-by-side, give reviews and ask questions.

Visit
graco.com



Graco University

Graco University is an e-learning module that can be accessed online, anytime, and contains assets that help educate you on Graco products.

This innovative online learning program gives you tools to stay on the leading edge with a variety of resources such as virtual and instructor-led courses, online books, live and on-demand video presentations and much more.

Learn more today at
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Graco Gear

Graco Gear is your one-stop shop for branded merchandise and other tools that will help you build customer relationships.

Order shirts, hats, banners and more whenever you need them! You can even add your logo for a small fee. Most orders ship the next day.

Start shopping today at
gracogear.com

Controllers

GLC X™ Controller and Auto Lube™ App GLC™ 2200 Series Controller GLC™ 4400 Series Controller Solid State Timer



Power Type	9–30 VDC	9–30 VDC	9–30 VDC or 100–240 VAC	115/230 VAC
Inputs/Outputs	4/2	2/2	4/4	0/1
Modes	Pressure / Cycle / Timer	Pressure / Cycle / Timer	Pressure / Cycle / Timer	Timer
Markets	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing

Accessories

Proximity Switches Pressure Switches Trabon® Spra-Control™ Valve



- Available in 115 VAC or 12-32 VDC
 - Available for all series progressive families to provide cycle rates up to 200 CPM
 - Pressure ratings up to 10,000 psi (690 bar)
 - Variety of electrical connections and voltages with or without LED indication
 - Select models available with UL and CSA approval
 - Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service
- LED lights available to visually display pressure switch functions
 - Variety of wiring options available
 - Turns off your pump or controller and activates venting once the lube system reaches the desired pressure level
 - Multiple thread options available for quick connection to any auto lube system
 - Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service
- Conserves air – air required only during spray interval
 - Versatile – can be used with most centralized lube system or mechanical oiler and will handle grease or oil
 - External mix nozzle purges itself and prevents clogging
 - Saves lubricant by spraying smaller amounts at frequent interval, provides better film, with less waste
 - Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service

Zone Valves Indicators Hose, Tubing, Fittings and Mounting Hardware



- Designed to custom-fit lubrication systems and to control when sections or zones of the system will receive lubricant
 - Available in two- or three-way styles
 - Three-way valves available with 12 VDC or 24 VDC
 - Available with normally closed and normally open valves for added convenience
 - Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service
- Easily pinpoint lube line blockages
 - Available in both closed system and relief to atmosphere versions
 - Visual cycle indication
 - Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service
- Full portfolio of hoses, tubes, fittings and mounting hardware
 - Available in both metric and imperial
 - Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service

Mobile Equipment Kits



Graco mobile equipment kits provide the latest technology from Graco, including the G-Series pumps, solid-state proximity switches, CSP divider valves, and hoses and fittings. Each kit will include all of the components necessary for model-specific customizations.

In order to eliminate system design and streamline the sales process, we have created a quick-to-spec, quick-to-quote and quick-to-sell solution. Scan the QR code below or visit www.graco.com/offroadslector to find an automatic lubrication kit for your piece of heavy equipment.



Pumps

G-Mini™ G1™ G3™ LubeMaster® Miniature Meter-Flo® Meter-Flo® Injecto-Flo® EO-1, EO-3 and Injecto-Flo II Electric Grease Jockey® Compact Dyna-Star® Electric Dyna-Star® HP and HF 24 VDC Modu-Flo® Hydraulic Dyna-Star® 10:1 and 5:1



Power Type	12 VDC, 24 VDC	12 VDC, 24 VDC, 90-240 VAC	12 VDC, 24 VDC, 90-240 VAC	115/230 VAC, 230/460 VAC	115 VAC	Electric (AC/DC Motor Required)	115 VAC, 230 VAC	12 or 24 VDC	24 VDC	24 VDC, 110-240 VAC (with converter box)	Hydraulic	Hydraulic
Fluid Type	Grease up to NLGI #2	Oil/grease up to NLGI #2	Oil/grease up to NLGI #2	Oil/grease up to NLGI #2	Oil – 160 to 15,000 SUS	Oil – 300 to 3,000 SUS	Oil – ISO 50 to 1,500 (SUS 250 to 5,000) and fluid grease NLGI #000	Grease up to NLGI #2	Oil/grease up to NLGI #2	Oil/grease up to NLGI #2	Oil/grease up to NLGI #2	Oil/grease up to NLGI #2
Max Output Pressure	4,061 psi (280 bar)	5,100 psi (352 bar)	5,100 psi (352 bar)	5,000 psi (340 bar)	2,000 psi (138 bar)	300 to 1,500 psi (20.7 to 103.5 bar)	145 to 650 psi (10 to 45 bar)	2,000 psi (352 bar)	3,500 psi (241 bar)	3,500 to 5,000 psi (241 to 344 bar)	3,000 psi (207 bar)	7,500 to 10,000 psi (517 to 689 bar)
Max Output Volume Range	0.25 in ³ (4 cm ³) per minute	0.25 in ³ (4 cm ³) per minute	0.12 in ³ , 0.18 in ³ , 0.25 in ³ (2 cm ³ , 3 cm ³ , 4 cm ³) per minute/element – up to 3 pump elements	8.62 in ³ (143.41 cm ³) per minute	1, 5, 8, 14 in ³ (16, 82, 131, 229 cm ³) per minute	14 to 245 in ³ (230 to 4015 cm ³) per minute	Oil – 6 to 30.50 in ³ (100 to 500 cm ³) Grease – 12.20 in ³ (200 cm ³) per minute	0.5 in ³ (8.2 cm ³) per element/minute	4.5 in ³ (74 cm ³) per minute	18 to 35 in ³ (295 to 574 cm ³) per minute, adjustable	0.125 in ³ (2.0 cm ³) per stroke	1.1 lb (0.5 kg) per minute
Reservoir Size	0.5 or 1 L	2, 4 or 8 L	2, 4, 8, 12 or 16 L	Oil – 12, 20 pints Grease – 12, 20 lb	1.5, 3, 5 gal (12, 24, 40 pints)	N/A	6.3, 7.6, 12.6, 15.8 or 25.3 pints, 3 or 6 L	2 L	12 or 20 L reservoir	60 or 90 lb reservoir, or standard barrel length options	Oil – 5, 6, 12, 20, 24 and 40 pints Grease – 3, 5, 6, 12 and 20 lb	60 or 90 lb reservoir, or standard barrel length options
Markets	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	In-Plant Manufacturing	In-Plant Manufacturing	In-Plant Manufacturing	Vehicle Service	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing

Pneumatic Pumps

LubePro™ Modu-Flo® E-Series™ MSA-10™ and MSA-100™ Injecto-Flo® AO-1 Pneumatic Dyna-Star® Fire-Ball® 300 50:1 LubeMaster® Ratchet Drive Manzel® MBL Box Lubricators and GBL 7500 Pumps Model HP-15™ and HP-50™ High Pressure Lubricators Manzel® MVB Pump



Power Type	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Mechanical	Mechanical (motorized options available)	Mechanical	Mechanical
Fluid Type	40 cSt oil minimum / grease up to NLGI #2	Oil/grease up to NLGI #2	Oil up to 30,000 SUS / grease up to NLGI #2	Oil/grease up to NLGI #2	Oil – 250 to 5,000 SUS	Oil/grease up to NLGI #2	Oil/grease up to NLGI #2	Mineral oil base or synthetics	Mineral oil base or synthetics	Oil
Max Output Pressure	1,350 psi to 4,000 psi (93.1 to 276 bar)	3,500 psi (241 bar)	2,000 psi (138 bar)	3,000 psi (207 bar)	450 psi (31 bar)	3,500 psi (241 bar)	5,000 psi (340 bar)	3,500 to 7,500 psi (241 to 517 bar)	18,000 to 50,000 psi (1,241 to 3,447 bar)	8,000 psi (551 bar)
Max Output Volume Range	Single Stroke Pumps – 0.56 to 3.0 in ³ (9.2 to 49.2 cm ³) Reciprocating Pumps – 50 in ³ (819 cm ³) per minute	0.03 to 0.24 in ³ (0.49 to 3.93 cm ³)	0.03 in ³ (0.49 cm ³) per stroke	0.12 to 0.8 in ³ (1.97 cm ³ to 13.11 cm ³) per stroke	0.80 in ³ (13 cm ³) per stroke	54 in ³ (85 cm ³) per minute	0.50 to 75.00 in ³ (8.195 to 1,229.25 cm ³) per hour	0.014 to 0.054 in ³ (0.229 to 0.885 cm ³) per stroke	0.008 in ³ (0.113 cm ³) per stroke	11.97 to 104.72 pints (5.66 to 49.53 L) per day
Reservoir Size	Oil – 0.6, 2, 2.8, 5.5 L Grease – 1, 4, 7.5 and 13 lb	Oil – 5, 6, 12, 20, 24 and 40 pints Grease – 3, 5, 6, 12 and 20 lb	Oil – 4 pints (1.89 L) Grease – 3 and 6 lb (1.36 kg and 2.72 kg)	N/A	4 pints (1.89 L) or 10 pints (4.73 L)	60 or 90 lb	Oil – 12 or 20 pints Grease – 12 or 20 lb	4 pints (1.9 L), 2 pump stations up to 40 pints (18.9 L), 24 pump stations	18 pints (8.5 L), 4 pump stations	N/A
Markets	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	In-Plant Manufacturing / Vehicle Service	In-Plant Manufacturing	In-Plant Manufacturing	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	Energy, Infrastructure and Heavy Equipment	Energy, Infrastructure and Heavy Equipment	Energy, Infrastructure and Heavy Equipment

Metering

Series Progressive Metering Devices

Trabon® MD Mono Block Divider Valve Trabon® MJ Divider Valve Trabon® MSP Stainless and Carbon Steel Divider Valves Manzel® MHH Divider Valve Compact Series Progressive (CSP) Valves Trabon® MX Divider Valve Trabon® MXP Divider Valve Trabon® MGO Divider Valve



Single Line Parallel Metering Devices

Piston Distributors GL-32™ / GL-43™ / GL-33™ / GL-42™ Injectors GL-1™ / GL-1™ SST / GL-1 X™ / GL-1 XL™ / GL-11™ Injectors



Fluids	Oil/grease up to NLGI #2	Oil/grease up to NLGI #1	Oil/grease up to NLGI #2	Oil	Oil/grease up to NLGI #2	Oil/grease up to NLGI #2	Oil/grease up to NLGI #2	Oil/grease up to NLGI #2	Oil – 32 to 2,000 cst / fluid grease up to NLGI #00	Oil (10 weight minimum) / grease up to NLGI #2	Grease up to NLGI #2
Max Pressure	3,000 psi (207 bar)	2,000 psi (137.89 bar)	3,500 psi (241 bar)	7,500 psi (517 bar)	5,076 psi (350 bar)	3,000 psi (207 bar)	3,000 psi (207 bar)	6,000 psi (413 bar)	650 psi (45 bar)	Grease – 3,500 psi (241 bar) / Oil – 1,000 psi (69 bar)	3,500 to 6,000 psi (241 to 414 bar)
Dispense Range Per Cycle	0.010 to 0.040 in ³ (0.16 to 0.66 cm ³)	0.005 to 0.030 in ³ (0.08 to 0.49 cm ³) per outlet	0.005 to 0.080 in ³ (0.08 to 1.31 cm ³) per outlet	0.006 to 0.060 in ³ (0.098 to 0.983 cm ³)	0.006 to 0.060 in ³ (0.098 to 0.983 cm ³)	0.025 to 0.300 in ³ (0.41 to 4.92 cm ³)	0.025 to 0.300 in ³ (0.41 to 4.92 cm ³)	0.150 to 1.200 in ³ (2.46 to 19.7 cm ³)	0.0006 to 0.036 in ³ (0.01 to 0.60 cm ³)	0.001 to 0.008 in ³ (0.02 to 0.13 cm ³)	0.008 to 0.08, 0.315, or 0.5 in ³ (0.13 to 1.3, 5.2 or 8.2 cm ³)
Fluid Outlets	2 to 6	1 to 16	1 to 22	1 to 22	2 to 22	1 to 20	1 to 20	1 to 20	1 to 10	1 to 15	1
Material Type	Carbon Steel	Carbon Steel	Carbon Steel / Stainless Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel / Stainless Steel	Carbon Steel and Aluminum	Carbon Steel / Stainless Steel	Carbon Steel / Stainless Steel
Markets	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service	Energy, Infrastructure and Heavy Equipment	Energy, Infrastructure and Heavy Equipment	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing	In-Plant Manufacturing	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing / Vehicle Service	Energy, Infrastructure and Heavy Equipment / In-Plant Manufacturing