



# LubePro™ Series Pumps

For Simple, Injector-Based Automatic Lubrication Systems



## The Choice of Lubrication Professionals

As a hard-working professional focused on ensuring your production lines keep moving and your operating costs are minimized, automatic lubrication should be an essential part of your machine maintenance. Without proper lubrication, your equipment may suffer from downtime and a reduced service life, which impacts your company's bottom line. Avoid the hassle. Meet your LubePro™.

PROVEN QUALITY. LEADING TECHNOLOGY.

# Built to Last. Built to Perform.

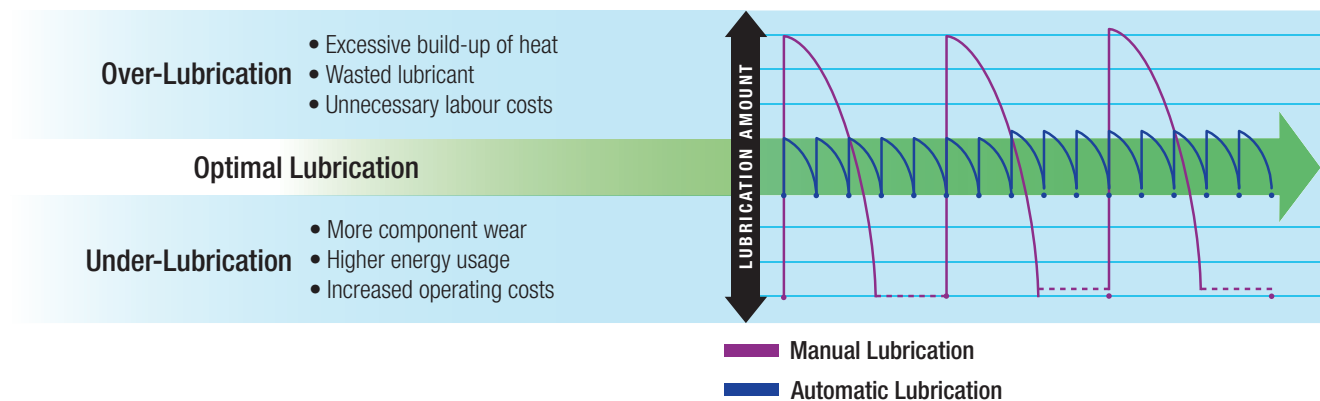


## Field-Proven Reliability

For nearly 50 years, Graco Fire-Ball™ pumps have been a mainstay in the lubrication marketplace for durability and long life. Designed for the toughest applications, the Fire-Ball™ repeatedly delivers field-proven reliability. LubePro™ series pumps leverage the same proven quality and leading technology.

## Performance

LubePro™ series pumps offer a robust solution where high output and fast lubrication cycles and flow rates are needed to lubricate equipment as effectively as possible while in operation. Our robust design has been tested and designed to perform.



## Positive Impact on Your Bottom Line

LubePro™ is the choice of lubrication professionals, because it has a positive impact on your company's bottom line by automatically providing the ideal amount of lubrication at the right time.

- Extends equipment life
- Improves productivity
- Reduces downtime
- Reduces repair costs
- Reduces operating costs
- Improves employee safety

## Typical Applications

- Packaging
- Food and Beverage Processing and Packaging
- Glass Manufacturing
- Tire Production
- Thermoforming
- Injection Moulding
- Paper Production
- Labelers
- Automation Machinery
- Presses
- Steel Forging and Finishing
- Bearing Manufacturing





# LubePro™ Reciprocating Pump

## A4000



Technical Specifications	
	A4000
Fluid Handling Capabilities	40 cSt oil - #2 grease
Maximum Working Pressure	276 bar (4,000 psi)
Pressure Ratio	40:1
Pump Output Per Stroke	819 cm³ (50 in³)
Maximum Air Inlet Pressure	6.89 bar (100 psi)
Air Inlet Size	1/4 in. NPT
Fluid Outlet Size	1/4 in. NPT
Operating Temperature	-10° C - 65° C (14° F - 149° F)

Ordering Information					NPT		
Pump Model	Fluid	Pressure Ratio	Reservoir Size	Low Level Detection	Pneumatic Vent Valve	Electric Vent Valve	Series Progressive
A4000	Oil	40:1	5.5 litres	—	17P752	17T195	17T178
				Yes	17P753	17T196	17T179
	Grease		3.4 kg (7.5 lb)	—	17P750	17T193	17T176
				Yes	17P751	17T194	17T177
			7.7 kg (13 lbs)	Yes	17U217	—	—

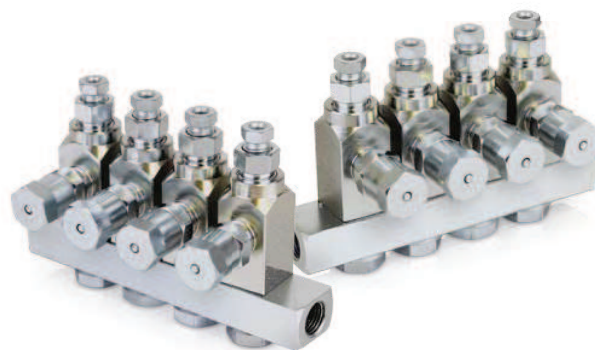


# GL Series Grease and Oil Injectors

## Higher Quality, Higher Performance

Choose durable, long-lasting Graco injectors to perform your lubrication automatically and minimizes downtime and maintenance costs.

- Long-life seals
- One-piece, machined body
- Seven outlet fitting sizes
- Adjustable injector output
- Visual indicator pin
- Wide range of manifold options



### Technical Specifications

	GL-32	GL-43	GL-33	GL-42
Maximum operating pressure	241 bar (3500 psi)	69 bar (1000 psi)	241 bar (3500 psi)	69 bar (1000 psi)
Minimum operating pressure	83 bar (1200 psi)	52 bar (750 psi)	83 bar (1200 psi)	52 bar (750 psi)
Typical operating pressure	103 bar (1500 psi)	59 bar (850 psi)	103 bar (1500 psi)	59 bar (850 psi)
Reset pressure	13.7 bar (200 psi)	10 bar (150 psi)	13.7 bar (200 psi)	10 bar (150 psi)
Output volume per cycle	0.02 - 0.13 cm <sup>3</sup> (0.001 - 0.008 in <sup>3</sup> )		0.02 - 0.05 cm <sup>3</sup> (0.001 - 0.003 in <sup>3</sup> )	
Maximum temperature rating	176° C (350° F)			
Recommended fluids	Grease, up to NLGI #2	Oil, SAE 10 minimum weight	Grease, up to NLGI #2	Oil, SAE 10 minimum weight

### Ordering Information

#### GL-32 and GL-43

Number of Injectors	Carbon Steel		Stainless
	GL-32	GL-43	GL-32
1	24A921	24E241	24E391
2	24A922	24E242	24E392
3	24A923	24E243	24E393
4	24A924	24E244	24E394
Standalone	24A919	24E240	24E389
Replacement	24A920	24E245	24E390

#### GL-33 and GL-42

Number of Injectors	Carbon Steel		Stainless
	GL-33	GL-42	GL-33
1	24W401	24W801	24W601
2	24W402	24W802	24W602
3	24W403	24W803	24W603
4	24W404	24W804	24W604
5	24X302	24X306	24X304
6	24W405	24W805	24W605
9	24W406	24W806	N/A
10	24W407	24W807	24W606
15	24W408	24W808	24W607
Standalone	24W487	24W493	24W489
Replacement	24W483	24W491	24W485

#### GL-32, GL-33, GL-42 and GL-43 Outlet Fittings

17B168	JIC-4 male outlet, carbon steel
17B169	JIC-4 male outlet, stainless steel
17B780	1/8 NPT(f) outlet, carbon steel
17B781	1/8 NPT(f) outlet, stainless steel
17B879	1/8 OD tube, push to connect
17B880	1/4 OD tube, push to connect
24F513	4 mm OD outlet tube, carbon steel
24F555	4 mm OD outlet tube, stainless steel
24B677	1/8 OD outlet tube, carbon steel
24F943	1/8 OD outlet tube, stainless steel
24F514	6 mm OD outlet tube, carbon steel
24F556	6 mm OD outlet tube, stainless steel
17B782	Outlet closure plug, carbon steel
17B783	Outlet closure plug, stainless steel

Graco GL-1 Series injectors can also be used with the LubePro Series pumps.  
See Graco's Industrial Lubrication Equipment Buyer's Guide for ordering information.

# LubePro™ Accessories

## Air Valves

- 3-way air valves available for A900, A2800, and A2900 Vertical Oil Pumps
- 4-way air valves available for A1900, H1900, and A2600 Horizontal Pumps



### Ordering Information

215407	3-way air solenoid valve, 10 bar (150 psi), (1/2 npsm(f) conduit ports for wiring; 1/4 npt(f) air ports, adapted to 3/8(f) IN, 3/8(m) OUT) operates on 24V DC and 110 VAC.
105474	3-way air solenoid valve (bare), 10 bar (150 psi), same as 215407 but without wire connectors or adapters. 1/2 npsm(f) conduit ports for wiring, 1/4 npt(f) air ports. 10.3 bar (150 psi) maximum working pressure.
563315*	3-way pneumatic solenoid valve, 115 VAC
563332*	3-way pneumatic solenoid valve, 24 VDC
128305	4-way air valve, 12 VDC
128254	4-way air valve, 24 VDC
128255	4-way air valve, 110 VAC
128257	4-way air valve, 220 VAC
560734	Air valve reservoir mounting bracket
24Y079	4-way air valve installation kit – 12 VDC air valve, bracket, air lines, fittings
24Y080	4-way air valve installation kit – 24 VDC air valve, bracket, air lines, fittings
24Y081	4-way air valve installation kit – 110 VAC air valve, bracket, air lines, fittings
24Y082	4-way air valve installation kit – 220 VAC air valve, bracket, air lines, fittings

\*For use with A900 only.

## Controllers

GLC2200 or GLC4400 lubrication controllers are available.



### Ordering Information

24N468	GLC 2200 controller
24P314	GLC 2200 wiring harness – 150 cm (5 feet), flying leads
24W981	GLC 2200 wiring harness – 300 cm (10 feet), flying leads
24P686	GLC 2200 connector (1) and pins (12)
24P687	GLC 2200 connectors (5) and pins (60)
24B591	GLC 4400 controller, 9-30 VDC
24B596	GLC 4400 controller, 100-240 VAC

## Pressure Switches

Not required, but can be used as an alarm to detect whether the pressure is achieved or not.



### Ordering Information

24K414	Set pressure range 20-40 bar (290-580 psi), reset pressure range 12-392 bar (175-5,685 psi), M12 connector (female), 9.6-32 VDC, 1/4 inch (7.6 cm) npt thread (male)
115124	Single post pressure switch
558947	Dual post control pressure switch
24N180	IP65 rated. Fluoroelastomer seals. Din connector. 40-400 bar (580-5,800 psi). 1/4 inch bspp inlet.
24N181	IP65 rated. Fluoroelastomer seals. Din connector. 40-400 bar (580-5,800 psi). 1/4 inch npt inlet.

Visit [www.graco.com](http://www.graco.com) for additional switch options.

## Air Filter – Regulator – Lubricators

Not required, but can be used in-line to protect and extend system component life.

### Ordering Information

110149	Kit includes 20 micron air filter (110146), regulator (110318), 21 bar (300 psi) WPR maximum lubricator (110148), and pressure gauge (110319). 1/4 inch npt inlet/outlet.
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## Coupler

Quick-disconnect coupler used to fill grease reservoirs on A2600 and A2900.



### Ordering Information

121474	Female coupler. Quick-disconnect. 1/4 inch npt.
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## ABOUT GRACO

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

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All written and visual data contained in this document are based on the latest product information available at the time of publication.  
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Graco is certified ISO 9001.

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