



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.

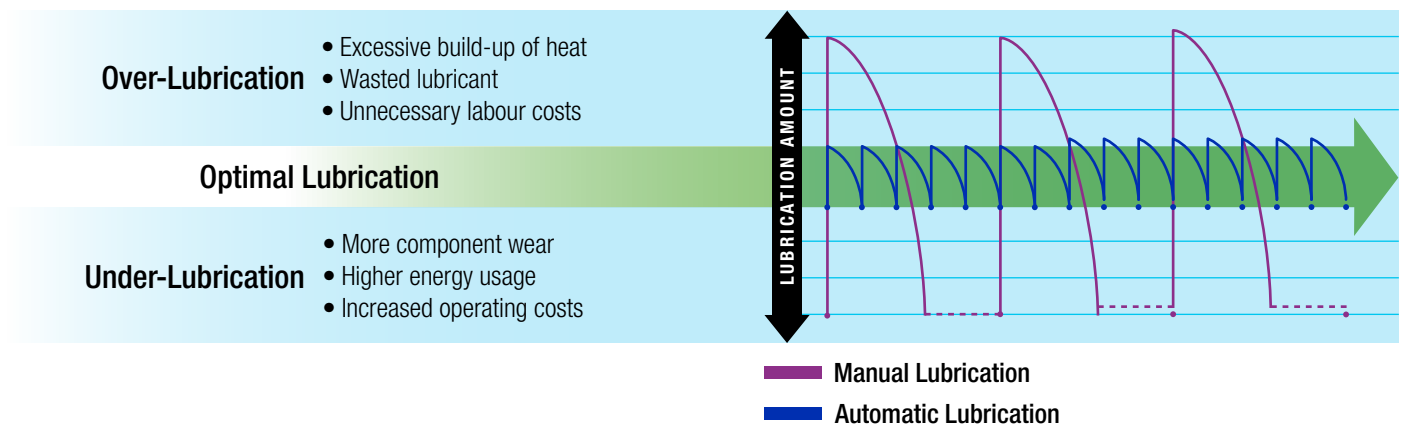


Field-Proven Reliability

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.



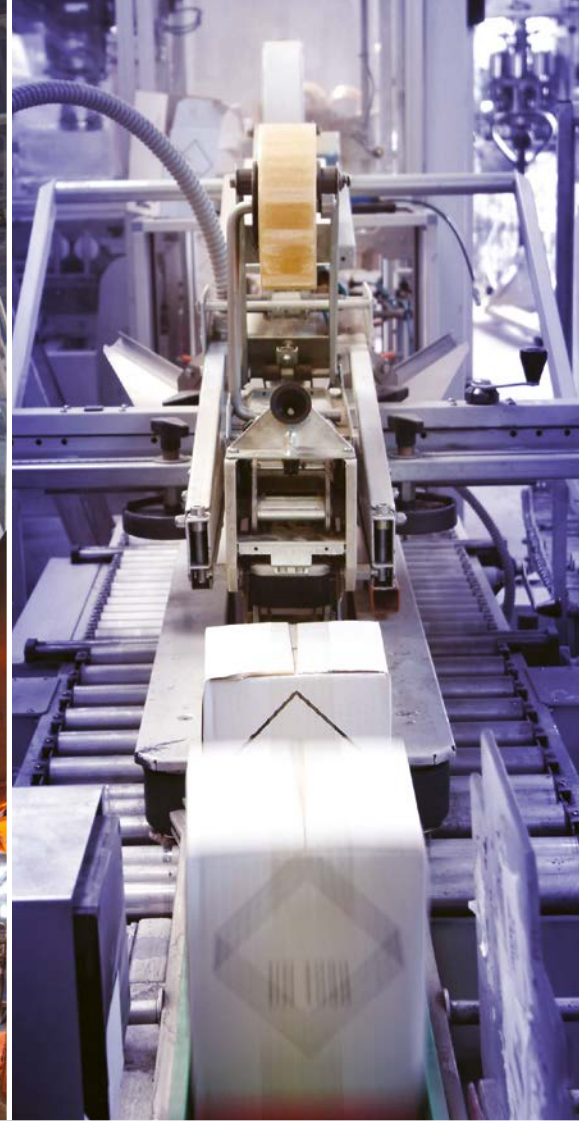
Positive Impact on Your Bottom Line

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



Two models available

Oil or grease: 276 bar (4,000 psi)

Low level detection

Available as a factory-installed option. Easy to connect, comes with field-wireable DIN connector; NO or NC.

Simple controlling

PLC or lube controller actuates a 3-way air valve to drive pump and vent valve to relive pressure in the system once lube cycle is complete

Pneumatic Power

Easily installed into existing air line

Multiple reservoir types

Oil without follower plate – 5.5 liter
Grease with follower plate – 7.5 lbs / 13 lbs

Easy to install

Utilize existing mounting holes for easy replacement and installation

Fast cycle rate and flow

Output of up to 819 cc/min (50 in³/min)

Vent valve

Integrated pneumatic or electric vent valve

17P751

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 cm ³ (50 in ³)
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

Pump Model	Fluid	Pressure Ratio	Reservoir Size	Low Level Detection	NPT		
					Pneumatic Vent Valve	Electric Vent Valve	Series Progressive
A4000	Oil	40:1	5.5 litres	–	17P752	17T195	17T178
				Yes	17P753	17T196	17T179
	Grease		–	17P750	17T193	17T176	
			Yes	17P751	17T194	17T177	
			Yes	17U217	–	–	

LubePro™ Vertical Pumps

A2800 and A2900

High-strength, shatter-resistant reservoir

Utilizes a high-quality, polycarbonate reservoir

Self-venting pump

Integrated vent automatically relieves pressure on return stroke, no pressure switch or wiring required

Easy to Install

Utilize existing mounting holes for easy replacement and installation

Simple Controlling

PLC or Lube controller actuates a 3-way air valve to drive pump, and vent on the return stroke

Pneumatic Power

Easily installed into existing air line

Fast cycle rate and flow

Cycles and vents lubricant injectors in as little as 10 seconds. 0.56 in³ of oil per stroke and 0.58 in³ of grease per stroke.

Multiple Reservoir Types

Oil without follower plate – 0.6 and 2 liter
Grease with follower plate – 1 and 4 lb.

Low Level Detection

Reliable, Graco factory-installed low level indicator that is easy to connect using a simple DIN connection.



24Z028



24Z053

Technical Specifications

	A2800	A2900
Fluid Handling Capabilities	40 cSt oil minimum	Up to #2 grease
Maximum Working Pressure	241 bar (3,500 psi)	241 bar (3,500 psi)
Pressure Ratio	28:1	29:1
Pump Output Per Stroke	9.18 cm ³ (0.56 in ³)	9.5 cm ³ (0.58 in ³)
Maximum Air Inlet Pressure	12.1 bar (175 psi)	12.1 bar (175 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

Pump Model	Fluid	Pressure Ratio	Reservoir Size	NPT		BSPP	
				Pump Without Low Level	Pump With Low Level	Pump Without Low Level	Pump With Low Level
A2800	Oil	28:1	0.6 litres	24Z020	24Z021 (NO)	24Z023	24Z024 (NO)
					24Z022 (NC)		24Z025 (NC)
			2 litres	24Z026	24Z027 (NO)	24Z029	24Z030 (NO)
					24Z028 (NC)		24Z050 (NC)
A2900	Grease	29:1	0.45 kg (1 lb)	24Z051	24Z052 (NO)	24Z054	24Z055 (NO)
					24Z053 (NC)		24Z056 (NC)
			1.81 kg (4 lb)	24Z057	24Z058 (NO)	24Z060	24Z061 (NO)
					24Z059 (NC)		24Z062 (NC)

LubePro™ Horizontal Pumps

H1900, A1900 and A2600

Two reservoir types

2 liter reservoir available in grease or oil. Select from the 19:1 oil pump or the 26:1 grease pump.

High-strength, shatter-resistant reservoir

Utilizes a high-quality, polycarbonate reservoir that is securely mounted to the pump with rigid tie rods for optimal sealing

Easy to install

Utilize existing mounting holes for easy replacement and installation

Fire-Ball pump casting

Leverages the proven quality and long life of Graco's Fire-Ball pump. Eliminates tie rods and end cap.

Low level detection option

Reliable, Graco factory-installed low level indicator that is easy to connect using a simple DIN connection

Fast cycle rate and flow

Cycles and vents lubricant injectors in as little as 10 seconds. 2.2 in³ of grease per stroke and 3.0 in³ of oil per stroke.

Self-venting pump

Integrated vent automatically and reliably relieves pressure on return stroke, no pressure switch or wiring required

No priming required

No need to bleed the valve to prime the pump, no priming is required

Pneumatic Power

Easily installed into existing air line



17C750



24Y499



17C753

Technical Specifications

	H1900	A1900	A2600
Fluid Handling Capabilities	40 cSt oil minimum	40 cSt oil minimum	Up to #2 grease
Maximum Working Pressure	241 bar (3,500 psi)	241 bar (3,500 psi)	241 bar (3,500 psi)
Pressure Ratio	19:1	19:1	26:1
Pump Output Per Stroke	49.16 cm ³ (3.0 in ³)	49.16 cm ³ (3.0 in ³)	36.05 cm ³ (2.2 in ³)
Maximum Air Inlet Pressure	12.8 bar (185 psi)	12.8 bar (185 psi)	9.3 bar (135 psi)
Air Inlet Size	1/4 in. NPT		
Fluid Outlet Size	3/4 in. NPT		
Operating Temperature	-10° C - 65° C (14° F - 149° F)		

Ordering Information

Pump Model	Fluid	Pressure Ratio	Reservoir Size	NPT		BSPP	
				Pump Without Low Level	Pump With Low Level	Pump Without Low Level	Pump With Low Level
H1900	Oil	19:1	—	24Y498	24Y499	25Y498	25Y499
A1900	Oil	19:1	1.81 kg (4 lb)	17C753	17C752 (NO)	18C753	18C752 (NO)
					19C752 (NC)		20C752 (NC)
A2600	Grease	26:1	2 litres	17C750	17C751 (NO)	18C750	18C751 (NO)
					19C751 (NC)		20C751 (NC)

LubePro™ Single Stroke Pump

A900

High-strength, shatter-resistant reservoir

Utilizes a high-quality, polycarbonate reservoir that is securely mounted to the pump with rigid tie rods for optimal sealing

Low level detection option

Reliable, Graco factory-installed low level indicator

Large-capacity oil pump

9:1 oil pump with 2.8 litre capacity

Fast cycle rate and flow

Cycles and vents lubricant injectors in as little as 10 seconds and provides 1.5 in³ of oil per stroke

Self-venting pump

Integrated vent automatically relieves pressure on return stroke, no pressure switch or wiring required

Pneumatic Power

Easily installed into existing air line



Technical Specifications

	A900
Fluid Handling Capabilities	40 cSt oil minimum
Maximum Working Pressure	93.1 bar (1,350 psi)
Pressure Ratio	9:1
Pump Output Per Stroke	24.58 cm ³ (1.5 in ³)
Maximum Air Inlet Pressure	10.3 bar (150 psi)
Air Inlet Size	1/4 in.-18 NPSF
Fluid Outlet Size	1/4 in.-18 NPT
Operating Temperature	-20° C - 65° C (-4° F - 149° F)

Ordering Information

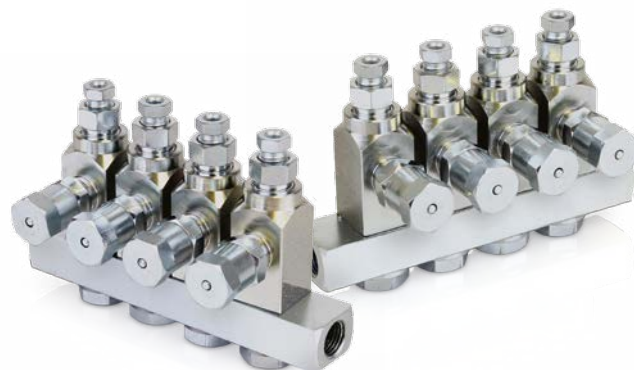
Pump Model	Fluid	Pressure Ratio	Reservoir Size	NPT	
				Pump Without Low Level	Pump With Low Level
A900	Oil	9:1	2.8 litres	24X717	24X694

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 ³ (0.001 - 0.008 in ³)		0.02 - 0.05 cm ³ (0.001 - 0.003 in ³)	
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 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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Graco is certified ISO 9001.



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