

# Electric Pumps

## G3™ Pumps

### Versatile Design Helps Solve Today's Lubrication Challenges

Temperature changes, changing grease types and challenging installation requirements are no problem for the G3 electric lubrication pump. With its flexible design, including adjustable pump elements and an ability to work with both injector-based and series progressive systems, G3 is a rugged, cost-effective pump designed to serve multiple markets and applications. The pump features three control choices, which means added flexibility for easy lube system set-up, operation and troubleshooting. The pump extends machinery life, reduces operating costs and increases productivity for usage in a wide variety of markets, including in-plant manufacturing, mobile and wind turbines.

### Features and Benefits

- Advanced flow dynamics—helps to prevent grease separation
- Load minimizing drive—for longer life
- Adjustable stroke pump—ensures a custom fit
- Five reservoir sizes to select from—provides a custom fit
- The most advanced user controls in its class—allows you to customize for your unique needs

### Typical Applications

- On-Road
- Off-Road
- In-Plant Machine and Conveyor Lubrication
- Wind Energy

### Lubrication Used

- Oil
- NLGI #000 to NLGI #2

### Technical Specifications

Max Pressure . . . . .	. . . . .	5,100 psi (352 bar)
Power . . . . .	. . . . .	12 VDC, 24 VDC, 90-240 VAC
Operating Temperature . . . . .	. . . . .	-40° F to 158° F (-40° C to 70° C)
Reservoir Size . . . . .	. . . . .	2, 4, 8, 12 or 16 liter
Maximum Run Time . . . . .	. . . . .	30 minutes
Control Options . . . . .	. . . . .	Standard, Pro or Max
Output per Element /Min. . . . .	. . . . .	0.12 in <sup>3</sup> , 0.18 in <sup>3</sup> , 0.25 in <sup>3</sup> (2 cm <sup>3</sup> , 3 cm <sup>3</sup> , 4 cm <sup>3</sup> )
Certifications/Ratings . . . . .	. . . . .	CE, ETL*, IP69K
		*Conforms to UL 73, certified to CSA 22.2 No 68-09
Instruction Manual . . . . .	. . . . .	3A0414

### G3 with Data Management System (DMS)

- Simple data transfer to your PC via USB flash drive for further analysis using Excel® or Notepad®
- Provides performance history for lube system events, such as cycle detection, error logs and allows a quick check of lubrication performance to meet your system requirements
- Preferred lube cycle program can be stored and transferred to other G3 pumps in your fleet for quick and accurate repeatability
- Provides you the comfort and security in knowing your pump is being properly maintained and your lube system is protecting your valuable asset



Standard Model



Pro Model



Max Model



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### G3 Standard

Comes standard with no controller for use with separate or existing machine control for a low cost solution. Some models capable of sending a low level signal to your external controller or PLC.

	Voltage	Reservoir Size					Wiper Arm	Follower Plate	External Low Level	Power Connection	
		2 liter	4 liter	8 liter	12 liter	16 liter					
Application	Grease	12 VDC	96G000	96G038	96G039	–	–	•			CPC
			96G003	96G044	96G045	–	–	•		•	CPC
		24 VDC	96G001	96G040	96G041	96G171	96G172	•			CPC
			96G005	96G048	96G049	96G199	–	•		•	CPC
			96G006	96G053	96G192	–	–		•	•	CPC
			96G182	96G184	96G189	–	–	•		•	DIN
	–	26G204	26G205	–	–		•	•	DIN		
	90-240 VAC	96G002	96G042	96G043	–	–	•			DIN	
		96G007	96G055	96G056	96G057	96G058	•		•	DIN	
		96G008	96G062	96G187	–	–		•	•	DIN	
		–	96G202	–	–	–	•		•	DIN	
	Oil	24 VDC	96G050	96G051	96G052	–	–			•	CPC
90-240 VAC		96G059	96G060	96G061	–	–			•	DIN	



### G3 Pro

Built-in controller with selectable pump on/pump off timer comes with local manual run and password protection with pre-lube function to initiate lube cycle on start-up. Optional low level sensing, warning and shut-down alarm available as well as remote manual run.

	Voltage	Reservoir Size					M12 Connection for Remote*	Wiper Arm	Follower Plate	Low Level	Power Connection
		2 liter	4 liter	8 liter	12 liter	16 liter					
Application	Grease	12 VDC	96G027	96G135	96G136	–	–		•		CPC
			96G033	96G147	96G148	–	–		•	•	5 Wire CPC**
		24 VDC	96G028	96G137	96G138	–	–		•		CPC
			96G011	96G068	96G069	–	–	•	•	•	CPC
			96G012	96G073	–	–	–	•		•	CPC
			96G034	96G149	96G150	96G163	96G167		•	•	5 Wire CPC**
	–	96G196	–	–	–		•		DIN		
	–	–	96G194	–	–			•	•	5 Wire CPC**	
	90-240 VAC	96G029	96G139	96G140	–	–		•		DIN	
		96G013	96G075	96G076	96G077	96G078		•	•	DIN	
		96G014	96G082	–	–	–			•	DIN	
	Oil	24 VDC	96G070	96G071	96G072	–	–	•		•	CPC
90-240 VAC		96G079	96G080	96G081	–	–			•	DIN	

\*G3 Pro pumps with the M12 connection for Remote Manual Run/Monitoring Light use the kit with the connecting cable to provide external low level indication. Choose part number 571032 for 12 VDC pumps or 571033 for 24 VDC and AC pumps.

\*\*G3 Pro pumps with the 5 Wire CPC power connection are compatible with a Remote Manual Run/Monitoring Light Device to provide external low level indication. Choose part number 571030 for 12 VDC pumps or 571031 for 24 VDC pumps.

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### G3 Max

Built-in controller with selectable pump on/pump off timer has low level warning and shut-down alarm or set up faults to an external alarm. Comes with manual run and password protection with pre-lube function to initiate lube cycle on start-up. Mix and match up to three cycle and pressure switches for custom installations and feedback. Machine count input is ideally suited for inconsistently used equipment. Optional Data Management System™ (DMS) uses a common USB port to quickly configure, store and transfer error log history to Excel® or Notepad® for longer equipment life and performance.

	Voltage	Reservoir Size					Number of Cycle/ Pressure Input	Machine Count	Vent Valve Output	DIN Alarm Output*	M12 Connection for Remote**	Wiper Arm	Follower Plate	Low Level	Power Connection	
		2 liter	4 liter	8 liter	12 liter	16 liter										
Application	Grease	12 VDC	96G030	96G141	96G142	-	-	1				•		•	CPC	
			96G021	96G096	96G097	-	-	1-3	•	•	•	•	•	•	•	DIN
			96G035	96G151	96G152	-	-	1		•			•			5 Wire CPC†
			-	96G159	-	-	-	1	•				•			5 Wire CPC†
		24 VDC	96G031	96G143	96G144	-	-	1					•		•	CPC
			96G017	96G088	96G089	-	-	1		•		•	•		•	CPC
			96G018	96G090	-	-	-	1		•		•		•	•	CPC
			96G036	96G155	96G156	96G164	96G168	1		•			•			5 Wire CPC†
	96G023		96G103	96G104	96G105	96G106	1-3	•	•	•	•	•		•	DIN	
	96G024		96G113	-	-	-	1-3	•	•	•	•		•	•	DIN	
	96G178		-	-	-	-	1			•		•		•	DIN	
	-	96G160	-	-	-	1	•				•			5 Wire CPC†		
	90-240 VAC	96G032	96G145	96G146	-	-	1					•		•	DIN	
		96G019	96G092	96G093	-	96G166	1		•			•		•	DIN	
		96G020	96G094	-	-	-	1		•				•	•	DIN	
		96G025	96G118	96G119	96G120	96G121	1-3	•	•	•	•	•		•	DIN	
		96G026	96G128	96G197	-	-	1-3	•	•	•	•		•	•	DIN	
		96G037	96G183	-	-	-	1			•		•		•	DIN	
	Oil	24 VDC	96G107	96G108	96G109	-	-	1-3	•	•	•	•			•	DIN
		90-240 VAC	96G122	96G123	96G124	-	-	1-3	•	•	•	•			•	DIN

\*The DIN Alarm Output is a dry contact relay which opens or closes when a fault is detected. This relay acts as a switch but supplies no power. It requires external power to energize the circuit when closed.

\*\*G3 Max pumps with the M12 connection for Remote Manual Run/Monitoring Light use the kit with the connecting cable to provide external fault indication. Choose part number 571032 for 12 VDC pumps or 571033 for 24 VDC and AC pumps.

†G3 Max pumps with the 5 Wire CPC power connection are compatible with a Remote Manual Run/Monitoring Light Device to provide external fault indication. Choose part number 571030 for 12 VDC pumps or 571031 for 24 VDC pumps.

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### G3 Max with Data Management System

	Voltage	Reservoir Size					Number of Cycle/ Pressure Input	Machine Count	Vent Valve Output	DIN Alarm Output*	M12 Connection for Remote**	Wiper Arm	Follower Plate	Low Level	Power Connection	
		2 liter	4 liter	8 liter	12 liter	16 liter										
Application	Grease	12 VDC	-	96G161	-	-	-	1	•						DIN	
			-	96G153	-	-	-	1		•					5 Wire CPC†	
			96G098	96G099	96G100	-	-	1-2	•	•	•	•	•	•	DIN	
			-	-	96G154	-	-	1		•			•			5 Wire CPC†
		24 VDC	96G110	96G111	96G112	-	-	1-2	•	•	•	•	•	•	•	DIN
			96G115	96G116	-	-	-	1-2	•	•	•	•		•	•	DIN
			-	96G162	-	-	-	1	•				•			5 Wire CPC†
			-	96G157	96G158	96G165	96G169	1		•			•			5 Wire CPC†
	90-240 VAC	96G125	96G126	96G127	-	-	1-2	•	•	•	•	•	•	•	DIN	
		96G132	96G133	-	-	-	1-2	•	•	•	•		•	•	DIN	
	Oil	12 VDC	-	-	-	96G186	-	1	•				•		•	5 Wire CPC†
			-	96G188	96G195	-	-	1	•				•		•	5 Wire CPC†
		24 VDC	96G190	-	-	-	96G201	1-2	•	•	•	•	•	•	•	DIN
			96G174	96G175	96G176	-	-	1-2	•	•	•	•	•	•	•	DIN

\*The DIN Alarm Output is a dry contact relay which opens or closes when a fault is detected. This relay acts as a switch but supplies no power. It requires external power to energize the circuit when closed.

\*\*G3 Max pumps with the M12 connection for Remote Manual Run/Monitoring Light use the kit with the connecting cable to provide external fault indication. Choose part number 571032 for 12 VDC pumps or 571033 for 24 VDC and AC pumps.

†G3 Max pumps with the 5 Wire CPC power connection are compatible with a Remote Manual Run/Monitoring Light Device to provide external fault indication. Choose part number 571030 for 12 VDC pumps or 571031 for 24 VDC pumps.

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## G-Series Pump Accessories

### Accessories

571041	G3 pump element—the same adjustability as the pump included with G3
24V837	Food and Beverage Upgrade Kit—contains pump element, stainless zerk fitting, and stainless reservoir plugs
571063	Two pump union kit—combines the output of the left and right pumps for larger lubrication needs
571026	Three pump union kit—joins the output of the left, right and center pumps for maximum output
24P296	Two pump union kit for use with pump mounted vent valve
24P295	Three pump union kit for use with pump mounted vent valve
571028	Adjustable return-to-reservoir pressure relief kit – 500-3500 psi (35-241 bar)
571036	Protective front cover kit—snaps over the front control panel on Pro and Max G3 models—black
571255	Protective front cover kit—snaps over the front control panel on Pro and Max G3 models—clear
126005	Liquid-filled pressure gauge—0-5,000 psi (0-344.7 bar) - 1/4 inch (6.4 mm) NPT brass back mount connection
557352	Dry pressure gauge—0-5,000 psi (0-344.7 bar), 1/4 inch (6.4 mm) NPT brass bottom mount connection
571030	Remote manual run/monitoring light—12 VDC
571032	Remote manual run/monitoring light kit—12 VDC, includes 16 foot M12 cable
571031	Remote manual run/monitoring light—24 VDC, 90-240 VAC
571033	Remote manual monitoring light run kit—24 VDC, 90-240 VAC, includes 16 foot M12 cable
571058	Pressure relief-to-atmosphere kit—requires one of the following six pressure relief valves:
563156	Pressure relief valve—750 psi (52 bar)
563157	Pressure relief valve—1000 psi (69 bar)
563158	Pressure relief valve—1500 psi (103 bar)
563159	Pressure relief valve—2000 psi (138 bar)
563160	Pressure relief valve—2500 psi (172 bar)
563161	Pressure relief valve—3000 psi (207 bar)
115122	Pressure relief valve to atmosphere, 1/8" NPT male, 4000 psi (276 bar)
571070	Pressure relief valve adapter, 1/4" BSPP
124300	Accessory cable—16 foot male M12 connector on one end and flying leads on the other end
124333	Accessory cable—16 foot male M12 connector on one end and female M12 connector on the other end
126331	Accessory cable—16 foot female M12 on one end and flying leads on the other end
124640	Alarm output accessory cable—DIN connector to flying leads, 6.5 feet
124301	M12 female connector for 6-8 mm cable
124594	M12 4-pin male connector for 6-8 mm cable
124595	M12 4-pin male connector for 8-11 mm cable
125910	G3 Pump mounting bracket
563485	Electronic proximity switch—12 VDC, 24 VDC or 90-249 VAC. Use to read movement and provide feedback of piston in series progressive divider valve. Includes five foot cable installed into switch with flying leads. Requires purchase of 124594.
563501	Electronic proximity switch with LED—24 VDC or 90-240 VAC. Use to read movement and provide feedback and provide feedback in piston of divider valve. Requires a cable with M12 female connection.
24K415	Cycle indicating proximity switch—designed to work with Graco's USP™, MSP™, and MHH™ series progressive divider valves. Requires purchase of a cable with M12 female connection.
557829	Electronic pressure switch—use to read pressure in an injector-based system. After injectors dispense, G3 will trigger pump shut down and vent. Includes five foot cable installed into switch with flying leads. Requires purchase of 124595.
24K414	Pressure switch—requires purchase of a cable with M12 female connection.
24M644	High capacity fill zerk with quick disconnect and dust cover
556420	Male run tee—1/4 inch (6.4 mm) male x (2) 1/4 inch (6.4 mm) female
121474	Female coupler
247886	Manual pump—fits 5 gallon or 35 pound pail
571162	Manual hand pump—use with grease cartridges, installs into alternative pump element port. Not recommended for pumps with follower plates or three-pump union kits.
571064	Cold temperature fill relief kit—prevents over pressurizing when filling in cold temperatures
571159	G3 pump support bracket for mobile installations—secures 12 and 16 liter reservoirs.
16T854	Vent valve output cover with o-ring, IP69K rated
24P731	DIN power/alarm cover with gasket and screw, IP69K rated
127123	DIN connector, field-wireable, female
17J939	G3 machine count inductive sensor, 12-24 VDC, M12, 5 mm sensing distance



# Electric Pumps

## G-Series Pump Accessories

### Vent Valves Ordering Information

Vent Valves for G3 Max Systems	
571169	G3 Max pump vent valve kit—normally closed, 12 VDC, NPT, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to G3 pump, cable included
571171	G3 Max pump vent valve kit—normally closed, 12 VDC, BSPP, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to G3 pump, cable included
571170	G3 Max pump vent valve kit—normally closed, 24 VDC (also for G3 Max AC pumps), NPT, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to G3 pump, cable included
571172	G3 Max pump vent valve kit—normally closed, 24 VDC (also for G3 Max AC Pumps), BSPP, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to G3 pump, cable included
Vent Valves and Accessories for G3 Standard Systems	
24M478	G3 Standard pump vent valve kit—normally open, 12 VDC, NPT, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to G3 pump, requires cable with Deutsch connector—see 24N402
24M481	G3 Standard pump vent valve kit—normally open, 12 VDC, BSPP, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to G3 pump, requires cable with Deutsch connector—see 24N402
24M479	G3 Standard pump vent valve kit—normally open, 24 VDC, NPT, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to G3 pump, requires cable with Deutsch connector—see 24N402
24M482	G3 Standard pump vent valve kit—normally open, 24 VDC, BSPP, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to G3 pump, requires cable with Deutsch connector—see 24N402
24M480	G3 Standard pump vent valve kit—normally open, 115 VAC, NPT, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to G3 pump, requires cable with DIN connector—see 16U790
24M483	G3 Standard pump vent valve kit—normally open, 115 VAC, BSPP, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to G3 pump, requires cable with DIN connector—see 16U790
24N182	G3 Standard pump vent valve kit—normally open, 230 VAC, NPT, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to right side of G3 pump, requires cable with DIN connector—see 16U790
24M484	G3 Standard pump vent valve kit—normally open, 230 VAC, BSPP, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to G3 pump, requires cable with DIN connector—see 16U790
24T178	G3 Standard pump vent valve kit—normally open, 230 VAC, NPT, adjustable pressure relief, 500-3500 psi (35-241 bar), mounts directly to left side of G3 pump, requires cable with DIN connector—see 16U790
24N402	Vent valve power cable—normally open, 12 or 24 VDC valve, Deutsch connector, 6 feet
16U790	Vent valve power cable—normally open, 115 or 230 VAC valve, DIN connector, 15 feet
24N351	Save installation time and money without the need for additional cabling. Patch cable connects vent valves with DIN connection directly to the DIN Pump Power connector.



24M480



24N351