Instructions-Parts List

GL-1[™] HCP (High Corrosion Protection) Injectors



334663B

ΕN

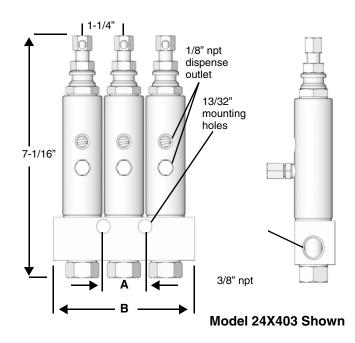
For Single–Line Parallel Automatic Lubrication Systems



Important Safety Instructions

Read all warnings and instructions in this manual and in related Automatic Lubrication System instruction manuals. Save all instructions.

Maximum Working Pressure: 3500 psi (24 MPa, 241 bar)



GL-1 HCP Injector Models

Part No.	Description	Dimension A	Dimension B	Bare Manifold Part No.
24X401	Injector, GL-1, one point		2.48 in. (63.0 mm)	17D401
24X402	Injector, GL-1, two point		3.00 in. (76.0 mm)	17D402
24X403	Injector, GL-1, three point	1.25 in. (31.7 mm)	4.23 in. (107.5 mm)	17D403
24X404	Injector, GL–1, four point	2.50 in. (63.4 mm)	5.47 in. (139.0 mm)	17D404
24X405	Injector, GL-1, five point	3.75 in. (95.1 mm)	6.71 in. (170.5 mm)	17D405
24X406	Injector, GL–1, six point	5.00 in. (126.8 mm)	7.98 in. (202.7 mm)	17D906
24X153	Injector, GL-1, replacement			

Warnings

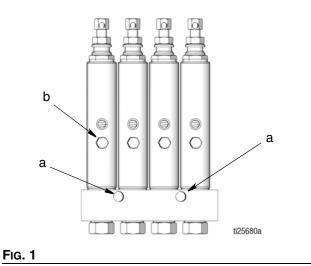
The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

	WARNING
	 SKIN INJECTION HAZARD High-pressure fluid from injector, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. Get immediate surgical treatment. Do not put your hand over the fluid outlet. Do not stop or deflect leaks with your hand, body, glove, or rag. Relieve pressure before cleaning, checking, or servicing equipment. Tighten all fluid connections before operating the equipment.
	PERSONAL PROTECTIVE EQUIPMENT
Wear appropriate protective equipment when in the work area to help prevent serious injury, inc eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes not limited to:	
	 Protective eyewear, and hearing protection. Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.
	CALIFORNIA PROPOSITION 65
	This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

Installation Instructions

Reference letters used in the following instructions, refer to FIG. 1.

- Group injectors to minimize feed line length.
- Install injectors in locations that allow easy and safe servicing access.
- Install injectors in areas that minimize accidental injector damage by moving equipment.
- Injector outputs can be combined for a common bearing point with a large grease requirement but the output for a single injector cannot be split into multiple bearing points.
- Graco recommends using steel tubing instead of pipe and hose for supply lines when possible. Pipe is often contaminated with scale and requires proper cleaning prior to use. Hose lines expand under pressure which leads to longer pump cycle time.



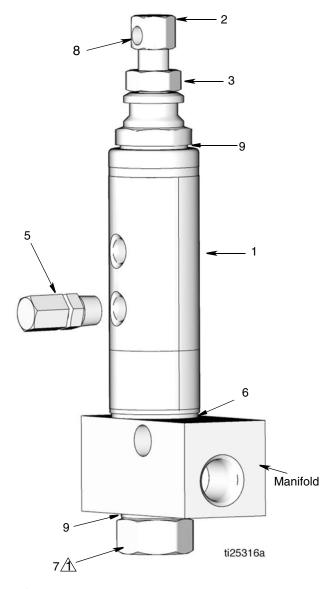


NOTE: The equipment may be pressurized by an automatic lube cycle initiated by a lubrication controller (timer).

- 1. Before installing the injectors, disconnect the power supplies to the lubrication controller and to the pump.
- 2. Relieve pump pressure. See the pressure relief procedure provided in the pump manual for your system.
- Install injectors on a flat, hard surface using holes (a) (FIG. 1) in manifold.
- 4. Connect fluid supply line to injectors.
- 5. Connect lube point feed lines (b).
- 6. Flush the system with low viscosity oil or mineral spirits to remove contamination introduced during installation.
- 7. Use a purge gun or run the pump until clean lubricant is dispensed at the end of each feed line to purge the system of flushing fluid or air.
- 8. Run the system at full output and verify that all injectors are cycling.
- 9. Adjust injector volume output. (See Volume Adjustment page 5.)
- 10. Connect feed lines to lubrication points.

Injector Parts

Model 24X401 Shown



A Torque to 50-55 ft-lbs (68-74.5 N.m)

Item	Description	Qty
1	Injector body	1
2	Adjusting screw	1
3	Lock nut	1
5	Zerk fitting and cap assembly	1
6	Gasket	1
7	Adapter bolt	1
8	Indicator pin	1
9	Gasket	2

Available Kits

Use Only Genuine Graco Repair Parts

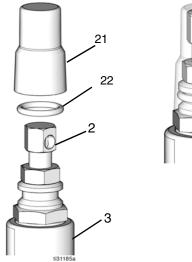
Graco Part No. 17L754 . Clear Polycarbonate Injector Cover (see page 3 for installation instructions) Graco Part No. 128139 Crossover Kit (for connecting the outlets of injectors for increased output)

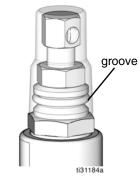
Injector Cover Kit 17L754

Item	Description	Qty
2	SCREW, adjusting	1
3	NUT, lock	1
21	CAP	1
22	O-RING	1

Installation Instructions

- 1. Apply a light coating of transparent lubricant to the inside of cap (21).
- 2. Slide the o-ring (22) down over the indicator stem to the groove in the piston plug.
- 3. Slide cap (21) over the indicator stem of the injector far enough to cover the groove in the piston plug.





Volume Adjustment

*Maximum adjustment setting is when adjusting screw (2) is just making contact with the indicator pin (8) with no inlet pressure. Turn adjusting screw clockwise (in), to reduce output. To adjust, loosen lock nut (3) and turn adjusting screw (2) the number of turns indicated on the GL-1 Volume Adjustment Table to obtain the desired volume. Tighten lock nut (3) when desired volume setting is reached.

GL-1 HCP Volume Adjustment Table			
Description	Number of	Volume	
Description	Turns	in. ³	СС
Maximum Adjustment*	0	0.080	1.31
360° Clockwise Turn	1	0.071	1.16
360° Clockwise Turn	2	0.062	1.02
360° Clockwise Turn	3	0.053	0.87
360° Clockwise Turn	4	0.044	0.72
360° Clockwise Turn	5	0.035	0.57
360° Clockwise Turn	6	0.026	0.43
360° Clockwise Turn	7	0.017	0.28
Minimum Adjustment	8	0.008	0.13

Technical Data

Maximum operating pressure	3500 psi (24 MPa, 241 bar)
Suggested operating pressure	2500 psi (17 MPa, 172 bar)
Reset pressure	600 psi (4.1 MPa, 41 bar)
Output volume per cycle	adjustable*: 0.008 to 0.08 in. ³
Wetted parts	carbon steel, stainless steel, fluoroelastomer
Recommended fluids	N.L.G.I. #2 grease down to 32° F (0° C)

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Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

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For patent information, see www.graco.com/patents.

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Original instructions. This manual contains English. MM 334663

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