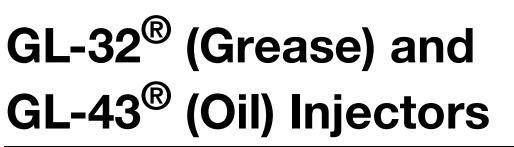
Instructions





313798V

ΕN

For Single-Line, Parallel, and Automatic Injector Systems Dispensing Grease, N.L.G.I. grades #000 - #2 and Oil (minimum SAE 10 weight).

Model Nos.:

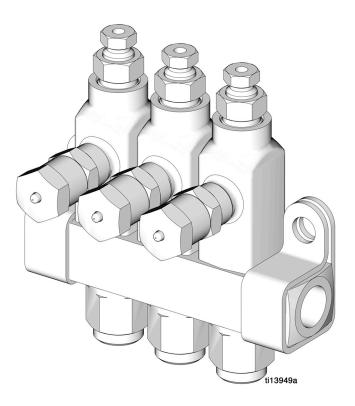
	GL-32 1/4 npt CS	GL-32 1/8 bspp CS	GL-32 SST 1/4 npt SST	GL-32 SST 1/8 bspp SST	GL-43 1/4 npt CS	GL-43 1/8 bspp CS	GL-32 1/4 npt CS	GL-32 1/4 npt CS
Outlet	3.2 mm	6 mm	3.2 mm	6 mm	3.2 mm	6 mm	6 mm	3.2 mm
Stand-Alone	24A919	NA	24E389	NA	24E240	NA	NA	NA
Replacement	24A920	24F508	24E390	24F550	24E245	24F543	26C065	24W508
1X Manifold	24A921	24F509	24E391	24F551	24E241	24F544	NA	NA
2X Manifold	24A922	24F510	24E392	24F552	24E242	24F545	24Z542	NA
3X Manifold	24A923	24F511	24E393	24F553	24E243	24F546	NA	24W916
4X Manifold	24A924	24F512	24E394	24F554	24E244	24F548	24Z544	24W917
6X Manifold	25T775							

3500 psi (24 MPa, 241 bar) Maximum Working Pressure - Grease Models 1000 psi (6.89 MPa, 68.9 bar) Maximum Working Pressure - Oil Models



Important Safety Instructions

Read all warnings and instructions in this manual. Save these instructions.



Warnings



SKIN INJECTION HAZARD

High-pressure fluid from dispense valve, 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 point dispense valve at anyone or at any part of the body.
- Do not put your hand over the dispense nozzle.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Follow **Pressure Relief Procedure**in this manual, when you stop dispensing and before cleaning, checking, or servicing equipment.

Pressure Relief Procedure



The equipment may be pressurized or may become pressurized by an automatic lubrication cycle initiated by a lubrication controller such as a timer. To avoid serious injury including the kind of injuries described in the Skin Injection Hazard warning:

- 1. Disconnect power to the timer.
- 2. If connected to an air supply, disconnect air supply to pump module to ensure the system is depressurized.
- 3. Consult your pump manual for any additional pressure relief instructions related to your pump module.

Adjustment Instructions

Reference numbers refer to parts (FIG. 1 and page 4).

- 1. Loosen lock nut (7).
- Hand tighten the Adjuster Nut (8) then loosen, approximately 1/2 turn to achieve the minimum dispensed output volume (.001 in.³).

NOTE: Any output setting below 1/2 turn should be monitored to verify actual output volume.

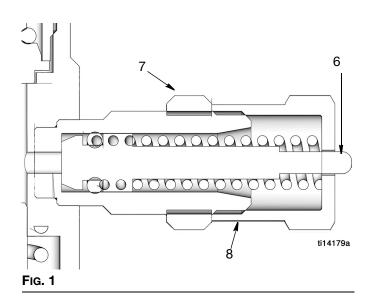
3. Retracting the Adjuster Nut (8) five full turns from the hand-tight position permits a maximum dispensed output volume (.008 in.³) This is the factory, preset position.

NOTE:

- Each full turn out represents an addition of approximately 0.0014 in.³ volume output.
- The amount of dispensed volume can vary depending on external conditions such as lubricant temperature and back pressure from the downstream connection.
- 4. When the injector has been adjusted for the proper lubricant output, wrench tighten the stroke adjust-ment lock nut (7).

NOTICE

To prevent component failure, the adjustment nut (8) must not be extended beyond the fully retracted position of the piston (6). See Fig. 1.



Operation

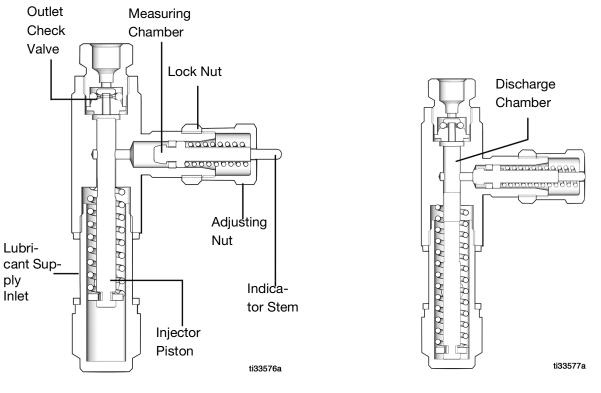


FIG. 2

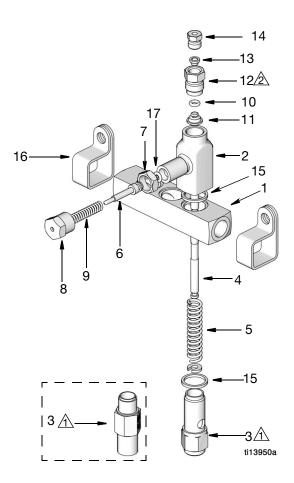
Stage 1

Pressurized fluid moves the injector piston forward and forces fluid through the outlet check valve to the feed line.

Stage 2

After fluid is discharged, the pressure is relieved and the injector piston returns to the rest position. Lubricant in the measuring chamber returns to the discharge chamber.

Parts



 \triangle Carbon Steel Models - Torque to 17-20 ft. lbs (23.0 - 27.1 N•m)

Stainless Steel Models - Torque to 23-26 ft. lbs (31.2-35.3 $N{\bullet}m)$

A Torque to 50-60 in. lbs (5.6 - 6.7 N•m)

Ref.	Part No.	Description	Qty
1	15W661	BLOCK, manifold, 1 injector, 1/4 npt	1
	16M401	(model 24A921, 24E241) BLOCK, manifold, SST, 1 injector, 1/4	1
	15W662	npt (model 24E391) BLOCK, manifold, 2 injectors, 1/4 npt	1
	101400	(model 24A922, 24E242, 24Z542)	-
	16M402	BLOCK, manifold, SST, 2 injectors, 1/4 npt (model 24E392)	1
	15W663	BLOCK, manifold, 3 injectors, 1/4 npt (model 24A923, 24E243, 15W663)	1
	16M403	BLOCK, manifold, SST, 3 injectors, 1/4	1
	15W664	npt (model 24E393) BLOCK, manifold, 4 injectors, 1/4 npt (model 24A924, 24E244, 24Z544,	1
	16M404	24W917) BLOCK, manifold, SST, 4 injectors, 1/4	1
	16F341	npt (model 24E394) BLOCK, manifold, 1 injector, 1/8 bspp	1
	16M405	(model 24F509, 24F544) BLOCK, manifold, SST, 1 injector, 1/8	1
	16F342	bspp (model 24F551) BLOCK, manifold, 2 injectors, 1/8 bspp	1
		(model 24F510, 24F545)	
	16M406	BLOCK, manifold, SST, 2 injectors, 1/8 bspp (model 24F552)	1
	16F343	BLOCK, manifold, 3 injectors, 1/8 bspp (model 24F511, 24F546)	1
	16M407	BLOCK, manifold, SST, 3 injectors, 1/8	1
	16F344	bspp (model 24F553) BLOCK, manifold, 4 injectors, 1/8 bspp	1
	16M408	(model 24F512, 24F548) BLOCK, manifold, SST, 4 injectors, 1/8	1
	20A229	bspp (model 24F554) BLOCK, manifold, 6 injectors, 1/4 npt	1
2 3		(model 25T775) HOUSING	1
3	15W671	CYLINDER, inlet, 1/4-18 nptf, stand alone, (model 24A919)	1
		CYLINDER, inlet, 1/4-18 nptf, SST,	1
		stand alone, (model 24E389) CYLINDER, inlet, 1/4-18 nptf, stand	
	15W657†	alone, oil (model 24E240) CYLINDER, inlet, manifold (model	1
		24A920-24A924; 24E241-24E245,	
		24W508, 24W916, 24W917, 24F508-24F512, 24F543-24F546,	
		24F548, 24Z542, 24Z544, 26C065,	
	124154	25T775) CYLINDER, inlet, SST, manifold (model	1
		24E390-24E394;	
4		24F550- 24F554) PISTON, end	1
5★		SPRING, compression, piston	1
6★ 7		PISTON, stroke	1
7 8		NUT, lock, stroke adjustment ADJUSTER, nut, stroke, piston	1
8 9★		SPRING, compression, piston	1
10★		O-RING, 006, duro viton	1
11★		VALVE, body, one-way	1
12 ◇ †✓ 13 ◇ †✓		ADAPTER, outlet FERRULE	1
13 ∢†√		NUT, compression	1

Ref. 15★	Part No.	Description SPACER, manifold inlet	Qty 2				
16	15W658	CLIP, manifold (all non-SST models only, 24A921-24A924,	2				
		24F509-24F512; 24E241-24E244;					
		24Z542, 24Z544, 24F544, 24F545,					
		24F546, 24F548. 24W916, 24W917,					
		25T775)					
	124619	CLIP, SST, manifold (models,					
		24E391-24E394; 24F551-24F554)					
17	123962	SEAL, square, GL-Series	1				
‡	131252	SEAL, square, GL-Series (for low tem-	1				
		perature applications)					
*	Parts included in Injector Repair Kit 24B360,						
	Oil - 24F201; SST - 24F944						
*	Parts inclu	uded in 1/8" Outlet Fitting Kit 24B677;					
	SST - 24F	943					

- Parts included in 4 mm Outlet Fitting (Adapter) Kit 24F513; SST- 24F555
- Parts included in 6 mm Outlet Fitting Kit 24F514; SST-24F556
- Parts included in Indicator Pin Kit 25C066 for low temperature applications.

Technical Data

Oil Models

Maximum Operating Pressure Minimum Operating Pressure Suggested Operating Pressure Reset Pressure Output Volume per Cycle Wetted Parts Recommended Fluids 1000 psi (6.89 MPa, 68.9 bar) 750 psi (5.17 MPa, 51.7 bar) 850 psi (5.86 MPa, 58.6 bar) 150 psi (1.03 MPa, 10.3 bar) adjustable: 0.001 - 0.008 in.³ (0.016 - 0.131 cc) carbon steel, stainless steel, copper, fluoroelastomer Minimum SAE 10 weight oil*

Grease Models

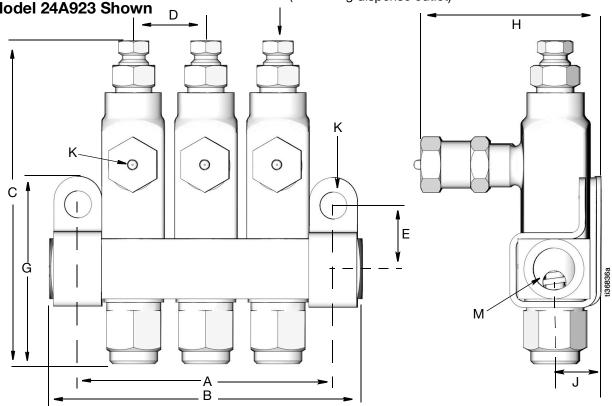
Recommended Fluids

Maximum Operating Pressure Minimum Operating Pressure Suggested Operating Pressure Reset Pressure Output Volume per Cycle Wetted Parts 3500 psi (24 MPa, 241 bar) 1200 psi (8.3 MPa, 83 bar) 2500 psi (17 MPa, 172 bar) 200 psi (1.4 MPa, 14 bar) adjustable: 0.001 - 0.008 in.³ (0.016 - 0.131 cc) carbon steel, stainless steel, copper, fluoroelastomer, TPU Grease N.L.G.I. grades #000 - #2*

*Only use fluids appropriate for your application, automatic dispensing and the equipment's operating temperature. Consult with machine and lube manufacturer for details.

Dimensions Model 24A923 Shown

F (OD tubing dispense outlet)



Injector	A in. / mm	B in./mm	C in./mm	D in./mm	E in./mm	F† in./mm	G in./mm	H in./mm	J in./mm	K in./mm	M* npt or bspp
Stand alone	single injector	manifold	3.12/ 79.4	N/A	0.68/ 17.3	0.125/ 3.2 OR 0.236/ 6.0	1.88/ 47.75	1.92/ 48.77	0.46/ 11.68	Ø 0.28/ 7.11	
Manifold		ement for nifold									
1 point	1.14/ 1 point 28.9 CS	1.75/ 44.4 CS	3.12/ 79.4		0.68/ 17.3 0.68/ 17.3						
manifold	1.14/ 28.9 SST	1.75/ 44.4 SST									1/4
2 point manifold	1.90/ 48.26 CS	2.50 / 63.5 CS	3.12/ 79.4	0.75/ 19.0 CS							npt or 1/8 bspp
	2.00/ 50.8 SST	2.60/ 66.0 SST		0.85/ 21.6 SST							
3 point manifold	2.64/ 67.06 CS	3.25/ 82.5 CS	3.12/ 79.4	0.75/ 19.0 CS	0.68/ 17.3						
	2.84/ 72.14 SST	3.45/ 87.6 SST		0.85/ 21.6 SST							
4 point manifold	3.39/ 86.11 CS	4.00/ 101.6 CS	3.12/ 79.4	0.75/ 19.0 CS	0.68/ 17.3						
	3.69/ 93.73 SST	4.30/ 109.2 SST		0.85/ 21.6 SST							

Injector	A in. / mm	B in./mm	C in./mm	D in./mm	E in./mm	F† in./mm	G in./mm	H in./mm	J in./mm	K in./mm	M * npt or bspp
6 point	4.89/ 5.5/ bint 124.2 CS 139.7 CS	3.12/	0.75/ 19.0 CS	0.68/							
manifold	5.39/ 136.9 SST	6.00/ 152.4 SST	79.4	0.85/ 21.6 SST	17.3						

*To verify your injector's inlet / outlet thread type (M), see Model Nos. table provided on cover page of this manual. † 0.157/4.0 available as adapter kit.

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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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