

SaniForce[™] 12:1 Sanitary Pumps

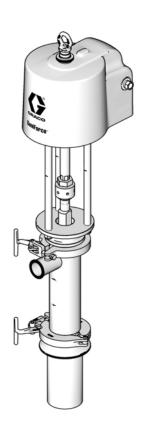
3A0735N

ΕN

For use in sanitary applications to transfer medium to high viscosity fluids. For professional use only.

See page 2 for model information, including maximum fluid working pressure.





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Models

Maximum Air Inlet Pressure: 100 psi (0.7 MPa, 6.9 bar)
Maximum Fluid Working Pressure: 1450 psi (10.1 MPa, 100.4 bar)

Pump Model	Displacement Pump Model	Pump Type	Pump Description	Packings
24F625	24G761	Priming Piston	Stubby	Acetal, PTFE, Nitrile, and UHMWPE
24F626	24G762	Priming Piston	Stubby, with extra seal*	Acetal, PTFE, Nitrile, and UHMWPE
24Y567†	24G762	Priming Piston	Stubby, with extra seal*	Acetal, PTFE, Nitrile, and UHMWPE
All models a	re compliant with:	7 "		

EC 1935/2004 compliant pumps may be subject to individual national provisions in addition to those specified in the EC regulation. It is the users responsibility to know and follow local laws.

^{*} For use with viscous, sticky material.

^{† &}quot;Type 3.1" Certified per DS/EN 10204

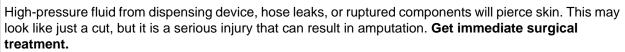
Warnings

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, 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





- Do not point dispensing device at anyone or at any part of the body.
- Do not put your hand over the fluid outlet.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Follow the Pressure Relief Procedure when you stop dispensing and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses and couplings daily. Replace worn or damaged parts immediately.



MOVING PARTS HAZARD

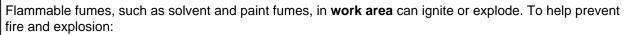
Moving parts can pinch, cut or amputate fingers and other body parts.



- · Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.



FIRE AND EXPLOSION HAZARD





· Use equipment only in well ventilated area.



• Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).



- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.
- Ground all equipment in the work area. See Grounding instructions.
- · Use only grounded hoses.
- Hold gun firmly to side of grounded pail when triggering into pail.
- If there is static sparking or you feel a shock, **stop operation immediately.** Do not use equipment until you identify and correct the problem.
- · Keep a working fire extinguisher in the work area.

WARNING



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.



- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Data** in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS from distributor or retailer.
- Do not leave the work area while equipment is energized or under pressure. Turn off all equipment and follow the **Pressure Relief Procedure** when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- · Do not alter or modify equipment.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



SPLATTER HAZARD

Hot or toxic fluid can cause serious injury if splashed in the eyes or on skin. During blow off of platen, splatter may occur.

• Use minimum air pressure when removing platen from drum.



TOXIC FLUID OR FUMES HAZARD

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.

- Read MSDSs to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.



PERSONAL PROTECTIVE EQUIPMENT

You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This equipment includes but is not limited to:

- · Protective eyewear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

Installation

Grounding







The equipment must be grounded. Grounding reduces the risk of static and electric shock by providing an escape wire for the electrical current due to static build up or in the event of a short circuit.

Pump: Connect a ground wire (Graco PN 238909) to the ground screw on the bottom cover of the air motor, under the shroud. Connect the other end of the ground wire to a true earth ground.

Air and fluid hoses: use only electrically conductive hoses with a maximum of 500 ft. (150 m) combined hose length to ensure grounding continuity. Check electrical resistance of hoses. If total resistance to ground exceeds 25 megohms, replace hose immediately.

Air compressors: follow manufacturer's recommendations.

Dispense valve: ground through connection to a properly grounded fluid hose and pump.

Material supply container: follow local code.

Container(s) that receive material: follow local code.

Solvent pails used when flushing: follow local code. Use only conductive metal pails, placed on a grounded surface. Do not place the pail on a nonconductive surface, such as paper or cardboard, which interrupts grounding continuity.

To maintain grounding continuity when flushing or relieving pressure: hold metal part of the dispense valve firmly to the side of a grounded metal pail, then trigger the valve.

Mounting

(41-49 N•m).





To avoid injury from a falling pump, check the torque on the lift ring (16) and nut (15) before using the lift

ring to lift the pump. Torque to 30-36 ft-lb

Mount the pump on a surface than can support the weight of the pump and accessories, as well as the stress caused during operation. Do not use air or fluid lines to support the pump.

Setup







To avoid contaminating the fluid, pipe the exhaust air to vent outside of the fluid product area, away from people, animals, or food-handling areas.

NOTE: Reference numbers and letters in parentheses in the text refer to the callouts in the figures and the parts drawings.

Accessories are available from Graco. Make certain all accessories are sized and pressure-rated to meet your system requirements.

Fig. 1 is only a guide for selecting and installing system components and accessories. Contact your Graco distributor for assistance in designing a system to suit your particular needs.

Install a bleed-type master air valve (G) close to the pump air inlet (D), to relieve air trapped between it and the air motor.

Install an air filter/regulator (F) in the pump air line, upstream from the bleed valve, to control air inlet pressure and to remove harmful dirt and contaminants from your compressed air supply.

Install a pump runaway valve (S) in the pump air line to shut off air to the air motor automatically if the pump starts to run too fast.

Install another bleed-type master air valve (G) upstream from all air line accessories and use it to isolate the accessories during cleaning and repair. On the air drop to the dispense valve (K), install an air regulator (M) to control air pressure to the valve. Install a bleed valve (G) to use as a shutoff when servicing the dispense valve.

Connect air solenoid valves (H) to a timer control (L), and set so the dispense valve (K) will dispense at proper intervals.

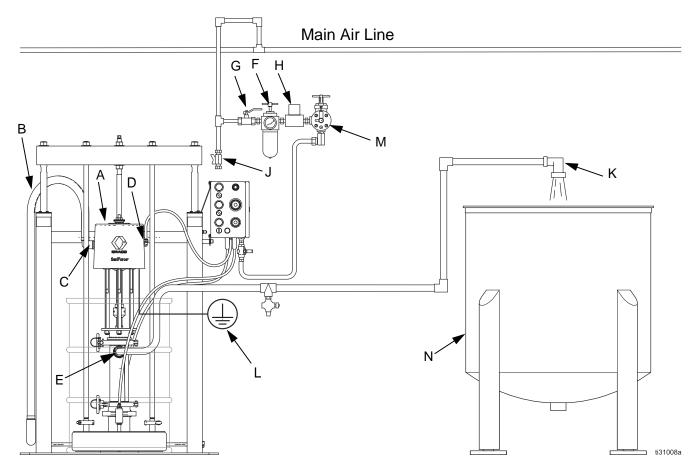


Fig. 1. Typical installation

Key:

Pump Components (Included)

- A Drum Unloader-Mounted Sanitary Pump
- B Air Exhaust Muffler (may alternately be mounted remotely, using exhaust hose)
- C 3/4 npt Exhaust Air Outlet
- D 1/2 npt Air Inlet
- E 2 in. Tube Size Flanged Fluid Outlet

System Components/Accessories (sold separately)

- F Air Line Filter/Regulator
- G Bleed-Type Master Air Valve (required)
- H Air Solenoid Valve
- J Air Line Drain Pipe and Valve
- K Dispensing Nozzle
- L Pump Ground Wire (required)
- M Pump Runaway Valve
- N Storage Vessel

Operation

NOTICE

Do not expose the air motor to temperatures higher than 120°F (49°C) or the immersed fluid pump to temperatures higher than 160°F (71°C). Excessive temperatures may damage the pump packings and seals.

Pressure Relief Procedure











Trapped air can cause the pump to cycle unexpectedly, which could result in serious injury from injection, splashing, or moving parts. Relieve pressure when you stop pumping and before cleaning, checking, or servicing equipment.

- Shut off the air supply to the pump.
- Close the bleed-type master air valve (required in system).
- Open the fluid ball valve and/or dispensing valve to relieve fluid pressure.

Flush Before First Use

The sanitary pump was assembled using sanitary lubricant on moving parts and was tested in water. Flush the pump thoroughly with an appropriate cleaning solution, and disassemble and sanitize the parts before using the pump. See Flushing Procedure, page 9. Check national, state, and local codes for specific limitations.

Adjusting the Pump Speed and **Pressure**

Set pressure regulator to 0 psi. Open the bleed-type master air valve. Adjust the pump air regulator until the pump is running smoothly.

Allow the pump to cycle slowly until all air is pushed out of the lines (the fluid will flow in a steady stream from the fluid outlet) and the pump is primed.

With the air supply turned on, the pump will start when the dispensing valve is opened and stall against pressure when the valve is closed. In a circulating system, the pump operates until the air supply is turned off.

NOTICE

Never allow the pump to run dry of fluid. A dry pump will accelerate to a high speed, possibly damaging itself.

If the pump accelerates quickly, or is running too fast, stop the pump immediately and check the fluid supply. If the supply is empty and air has been pumped into the lines, refill the container and prime the pump and lines with fluid. Be sure to eliminate all air from the system.

Pump Shutdown

Follow the **Pressure Relief Procedure**, page 8. Always stop the pump at the bottom of its stroke to prevent fluid from drying on the displacement rod. (The air motor will exhaust at the bottom and top of the stroke.)

Maintenance

Flushing Procedure









NOTE:

- Flush before fluid can dry in the equipment, at the end of the day, before storing, and before repairing equipment.
- Flush at the lowest pressure possible. Check connectors for leaks and tighten as necessary.
- Flush with an appropriate cleaning solution.
- Remove the pump from the fluid container. Operate it at a slow rate to pump out as much fluid as possible.
- 2. Follow Pressure Relief Procedure, page 8.
- 3. Place siphon tube in grounded metal pail containing an appropriate cleaning solution.
- 4. Set pump air regulator to lowest possible fluid pressure, and start pump.
- 5. Run the pump long enough to thoroughly clean the pump and hoses.
- 6. Follow Pressure Relief Procedure, page 8.

Cleaning Procedure

NOTE: The following instructions are a basic procedure for cleaning a sanitary pump.

- Be sure to follow your national and state sanitary standard codes and local regulations.
- Use appropriate cleaning and disinfecting agents, at intervals appropriate for product processed.
- Follow cleaning product manufacturer's instructions.

NOTE: The pump **must be disassembled** to clean it thoroughly.

 Remove the pump from the fluid container. Operate it at a slow rate to pump out as much fluid as possible.

- 2. Flush the system thoroughly with an appropriate cleaning solution. See **Flushing Procedure**, page 9.
- 3. Follow the **Pressure Relief Procedure**, page 8.
- 4. Remove the air and fluid hoses and fittings from the pump.
- Ram-Mounted Pumps: Loosen the hand screw and lift the upper shroud straight up on the rod. Other Pumps: Remove the upper shroud.
- 6. Clean thoroughly the surface between the upper and lower shrouds.
- 7. Disassemble the fluid pump and accessories. See **Disassemble the Pump**, page 11.
- Wash all pump parts with an appropriate cleaning solution at the cleaning product manufacturer's recommended temperature and concentration.
- 9. Rinse all pump parts again with water and allow them to dry.
- 10. Inspect all pump parts and reclean if needed.

NOTE: Any damaged rubber parts **must** be replaced as they could harbor microorganisms that can contaminate the fluid.

- Immerse all pump parts in an appropriate sanitizer before assembly. Take the pump parts out of the sanitizer one-by-one as needed.
- Lubricate the moving pump parts and o-rings, packings, and seals with appropriate waterproof sanitary lubricant.
- 13. Circulate the sanitizing solution through the pump and the system prior to use.
- 14. Ram-Mounted Pumps: Clean all ram surfaces. Remove and clean the inflatable seal and ram plate. See Manual 3A0591.

Tighten Connections

Before each use, check all hoses for wear or damage. Replace as necessary. Check that all connections are tight and leak-free.

Troubleshooting



- 1. Follow Pressure Relief Procedure, page 8.
- 2. Check all possible remedies in the Troubleshooting Chart before disassembling the pump.

Problem	Cause	Solution
Pump fails to operate.	Restricted air line or inadequate air supply.	Clear air line or increase air supply.
	Insufficient air pressure; closed or clogged air valves, etc.	Open or clean air valves, etc.
	Exhausted fluid supply.	Refill fluid supply.
	Damaged air motor.	Service.
Pump operates, but output low on both strokes.	Restricted air line or inadequate air supply.	Clear air line or increase air supply.
	Insufficient air pressure; closed or clogged air valves, etc.	Open or clean air valves, etc.
	Exhausted fluid supply.	Refill fluid supply.
	Obstructed fluid line, valves, dispensing valve, etc.	Clear. Relieve pressure and disconnect fluid line. Turn on air. If pump starts, the fluid line is clogged.
	Worn throat packing (103).	Replace throat packing.
	Damaged cylinder o-ring (123).	Replace o-ring.
Pump operates, but output low on	Held open or worn fluid inlet valve.	Clear or service fluid inlet valve.
down stroke.	Damaged cylinder o-ring (123).	Replace o-ring.
Pump operates, but output low on up stroke.	Held open or worn fluid piston or seal (109, 110).	Clear or service fluid piston or seal.
Erratic or accelerated operation.	Exhausted fluid supply.	Refill fluid supply.
	Held open or worn fluid inlet valve.	Clear or service fluid inlet valve.
	Held open or worn fluid piston or seal (109, 110).	Clear or service fluid piston or seal.

Service

Disconnect the Pump





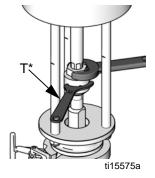


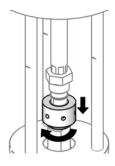


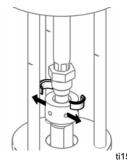


Moving parts can pinch, cut or amputate fingers and other body parts. Keep your hands and fingers away from the priming piston during operation and whenever the pump is charged with air.

- Remove the pump from the fluid container. Operate it at a slow rate to pump out as much fluid as possible.
- 2. Follow the Pressure Relief Procedure, page 8.
- Remove the air and fluid hoses from the pump.
 Ram-mounted pumps: leave ram air connected for now.
- Hold the reducer fitting with a wrench. Use a spanner wrench (T)* to loosen the coupling nut.
 *A Graco spanner wrench tool (p/n 112887) is available.
- Lower the coupling nut enough to remove the coupling collars.







- 6. Remove the clamps holding the pump base to the ram or drum. **Ram-mounted pumps:** Use the ram to lift the air motor. Disconnect air lines.
- 7. Remove the clamp holding the displacement pump to the air motor. Carry the displacement pump to the bench for service.

Disassemble the Pump

NOTE: Pump Repair Kits are available. Purchase the kit separately. See the Parts list on page 19 to select the correct kit for your pump. Kit parts are marked with an *.

- 1. With the pump on its side, tap the displacement rod (105) with a rubber mallet to drive the priming piston assembly out of the base (102).
- Hold the valve plate guide (119) with a wrench. Use another wrench to remove the priming piston nut (122).



 Remove the priming piston (121) and the valve plate (120).

- 4. Remove the clamp (118) from the base (102). Then remove the base (102). Tap with a rubber mallet to loosen, if needed.
- Remove the o-ring (123) and the spacer (113). Tap
 the displacement rod again to drive the displacement rod/priming piston rod assembly (105/106) out
 of the cylinder (101).
- 6. Hold the rod (106) with a wrench and remove the priming piston guide (119).

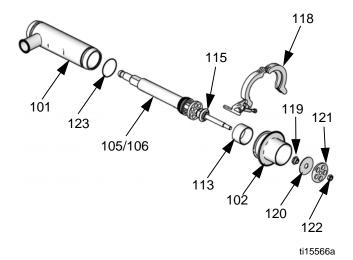


Fig. 2. Remove piston rod

- Hold the piston rod (106) with a wrench. Use another wrench to loosen the intake valve housing (115), then remove it. If the intake valve housing (115) is stuck to the rod, tap with a plastic rod and mallet.
- Screw out the packing nut (117) and remove the packing stack (116) from the intake valve housing (115).

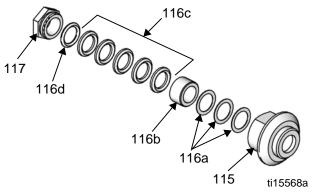


Fig. 3. Intake valve housing

 Remove the valve plate (112). Use wrenches on the displacement rod flats (105) and the piston rod flats (106) to disconnect.



Remove the valve plate (108) and the piston (107).
 Remove the bearings (110) from the piston. (Model 24G761 has two bearings; Model 24G762 has three bearings.)

NOTE: On Displacement Pump Model 24G761, carefully remove the u-cup seal (109). Use a pick, not a screwdriver, as the packing may deform.

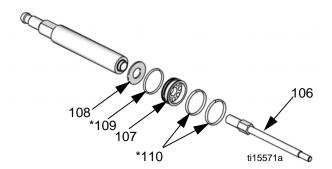


Fig. 4. Remove piston and seals

11. Stand cylinder upright. Remove the u-cup seal assembly, which includes the base (103a), insert (103b), o-ring (103d), and u-cup (103c).

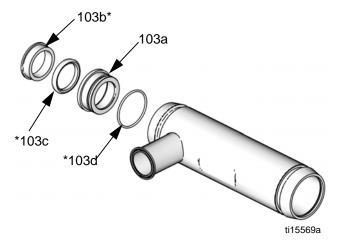


Fig. 5. Remove u-cup seal assembly

12. Refer to the **Cleaning Procedure** on page 9. Clean the parts and inspect them for wear or damage. Replace them as necessary.

Reassemble the Pump

NOTE: Any damaged rubber parts **must** be replaced as they could harbor microorganisms that can contaminate the fluid.

NOTE: Lubricate the o-rings, throat packings, and piston seals with appropriate waterproof sanitary lubricant prior to installation.

- Install the bearings (110*) and the u-cup seal (109*, 24G761 only) on the piston (107). The lips of the piston u-cup must face up. Install the valve plate (108) and piston assembly on the displacement rod (105). Cutout on piston must face down.
- Use wrenches on the displacement rod flats and the piston rod flats to reconnect. Torque to 60-70 ft-lb (81-95 N•m).
- Install the packing stack (116*) into the intake valve housing (115). Maintain the following order: shims (116a), female gland (116b), five v-packings (116c) with the lips facing up, and male gland (116d). Loosely thread packing nut (117) into the valve housing (115).

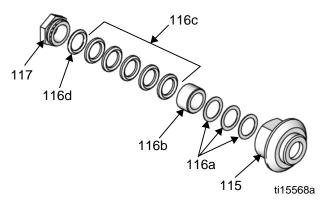


Fig. 6. Intake valve housing

- 4. Install the u-cup (103c*) and insert (103b*) into the u-cup seal assembly base (103a). Throat u-cup lips must face down. Then install the o-ring (103d*).
- 5. Lubricate the displacement rod/piston rod assembly and slide into the cylinder from the top.
- 6. Install the u-cup assembly (103) in the top of the cylinder (101). Reassembly may be difficult. Use steady force until the assembly drops into place.

- 7. Turn the pump on its side. Use a rubber mallet to tap the displacement rod so the piston rod extends well out of the cylinder.
- 8. Install the valve plate (112) and the spacer (113) into the bottom of the cylinder. Install the cylinder o-ring (123*).

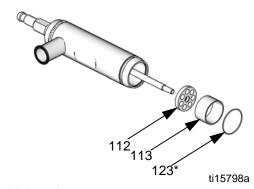


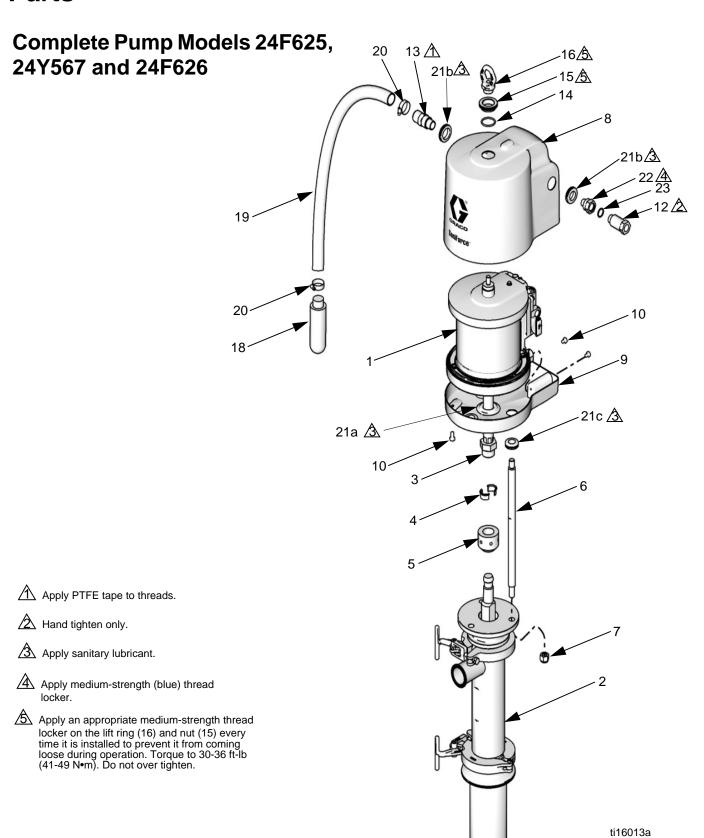
Fig. 7. Valve plate

- Lubricate the piston rod and the inside of the packing nut (117) and intake valve housing (115). Slide the assembly onto the piston rod, then use two wrenches to tighten the valve housing.
- 10. Stand the pump upright, placing the cylinder (101) into the base (102). Reattach the clamp to hold the base (102) to the cylinder (101). Replace the pin (125).
- Turn the pump on its side. Use a rubber mallet to tap the displacement rod so the piston rod extends well out of the cylinder.
- 12. Hold the displacement rod (105) with a wrench. Screw on the guide (119) and use another wrench to tighten.
- 13. Install the valve plate (120) and the priming piston (121). Hand tighten the priming piston nut (122).
- 14. Hold the displacement rod (105) with a wrench. Use another wrench to tighten the priming piston nut (122).

Reconnect the Pump

- 1. **Ram-mounted pumps:** Set the displacement pump in place, then attach the clamp. Align the air motor and set it on top of the displacement pump. Attach the clamp. Replace the pin.
- 2. **Other pumps:** Slide the assembled displacement pump into position on the air motor pump adapter and reattach the clamp.
- 3. Hold the motor shaft up with one hand. With your other hand, put the coupling nut (5) on the rod.
- 4. Put the coupling collars (4) into the coupling nut so large flanges point upward.
- Gently let the motor shaft drop onto the rod. Use a spanner wrench to tighten the coupling nut securely.
 A Graco spanner wrench tool (p/n 112887) is available.
- 6. Connect the remaining air and fluid hoses and the ground wire.

Parts



Complete Pump Models 24F625, 24Y567 and 24F626

Ref	Part	Description	Qty	Ref	Part	Description	Qty
1	24G787	MOTOR, SaniForce; 7.5 in.; see	1	10	118134	SCREW, cap, M8 x 1.25, sst; see	4
		manual 3A1211				Kits	
2		DISPLACEMENT PUMP	1	12	24G862	FITTING, air inlet, 1/2 npt,	1
	24G761	Model 24F625				Includes Ref. 23	
	24G762	Model 24F626		13		FITTING, 3/4 npt	1
3	16A939	COUPLER	1	14	165053	O-RING, PTFE	1
4	184130	COLLAR, coupling	2	15	16C306	NUT, hand	1
5	626045		1	16	16C009	RING, lift	1
6	16C010	TIE ROD, 13.3 in. (338 mm)	3	17▲	280574	LABEL, warning, not shown	1
		between shoulders		18	512914	MUFFLER; see Kits	1
7	102216	NUT, lock, 5/8-11, sst	3	19		HOSE, exhaust; see	1
8		SHROUD, upper; includes grom-	1	20	101818	CLAMP, hose; see Kits	2
		mets (Ref. 21)		21		GROMMET; see Kits	6
9	16G382	SHROUD, lower; includes fasten-	1	22	16G084	FITTING, air inlet, 1/2 npt	1
		ers (Ref. 10) and grommets		23	166702	O-RING, air inlet, buna-n	1
		(Ref. 21)		▲ Re	eplacemen	nt Danger and Warning labels, tags,	and

Kits

NЛ.	.ffI	or	Kit	16	C3	an
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Ref. 18	Part 512914	Description MUFFLER, polyethylene	Qty . 2		
Exha	aust As	sembly Kit 16G389			
			Qty		
Ref.	Part	Description			
18	512914	MUFFLER, polyethylene	1		
19		HOSE, exhaust, 6 ft.	1		
20	101818	CLAMP, hose	2		
Lower Shroud Fastener Kit 16G432					
			Qty		
Ref.	Part	Description			
10	118134	SCREW, cap, M8 x 1.25, sst	4		

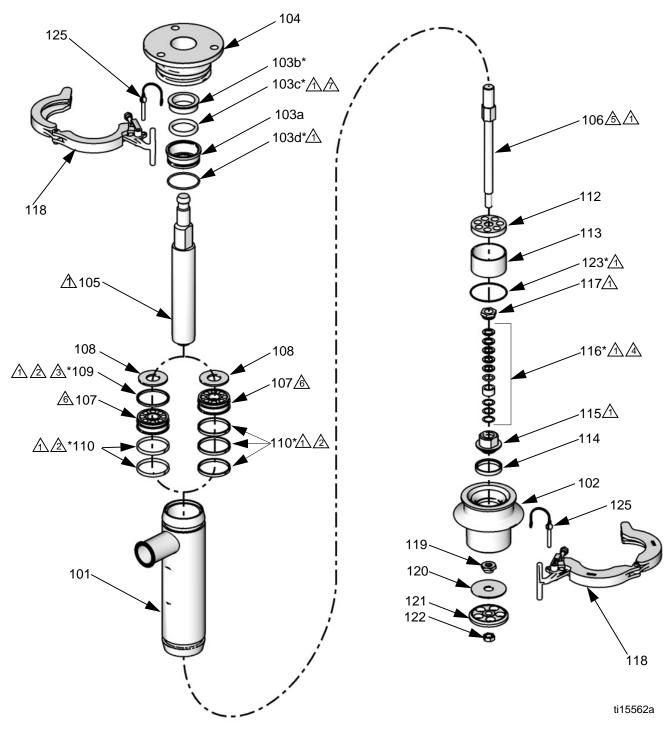
Grommet Kit 16G385

cards are available at no cost.

			Qty			
Ref.	Part	Description				
21a*		GROMMET, air motor piston rod	1			
21b		GROMMET, air fitting	2			
21c		GROMMET, tie rod	3			
* Order Kit 16G384 for qty. 3 of the piston rod grommet.						
Spanner Wrench						

			Qty
Ref.	Part	Description	
	112887	WRENCH, spanner	1

Displacement Pump Models 24G761 and 24G762



- Apply appropriate waterproof, sanitary lubricant.
- Model 24G761 has a u-cup (109) and two bearings (110). Model 24G762 has three bearings (110) and no u-cup (109).
- A Piston u-cup lips must face UP.

- ⚠ V-packing lips must face UP.
- ★ Torque to 60-70 ft-lb (81-95 N•m).
- ♠ Cutout on piston must face DOWN.
- Throat u-cup lips must face DOWN.

Qty

Displacement Pump Models 24G761 and 24G762

Ref

Part

Ref	Part	Description	Qty
101	16G430	CYLINDER, pump	1
102	16G431	BASE, pump, includes Part 114	1
103a		BASE, u-cup; see Kits for	1
		U-Cup Seal Assembly	
103b*		INSERT; see Kits for U-Cup	1
		Seal Assembly	
103c*		U-CUP; see Kits for package of	1
		5 with o-ring (part 103d)	
103d*		O-RING; see Kits for package	1
		of 5 with u-cup (part 103c)	
104	16E465	ADAPTER, tie rod	1
105	16G436	ROD, displacement	1
106	16G437	ROD, priming piston	1
107	181892	PISTON, cylinder	1
108	167493	PLATE, piston valve	1
109*	108543	U-CUP, UHMWPE, Model	1
		24G761 only	
110*	181897	BEARING	
		Model 24G761	2
		Model 24G762	3
112	16A846	PLATE, intake valve	1

113	16A847	SPACER	1
114	167481	SEAT, valve	1
115	167482	HOUSING, intake valve seal	1
116*		STACK, gland/packing	1
117	167486	NUT, packing	1
118	16G386	CLAMP, assembly	2
119	167480	GUIDE, valve plate, pump	1
120	167479	PLATE, priming piston valve	1
121	172200	PISTON, priming	1
122	102533	NUT, plain hex	1
123*	16D164	O-RING, 152, nitrile	1
125	16F603	PIN, locking, 5/16 in.	2

Description

Kits

U-Cup Seal Assembly Kit 24C623

			Qty
Ref.	Part	Description	
103a		BASE	1
103b		INSERT	1
103c		U-CUP SEAL	1
103d		O-RING	1

U-Cup Seal/O-Ring Kit 24G858

			Qty
Ref.	Part	Description	
103c		U-CUP SEAL	4
103d		O-RING	4

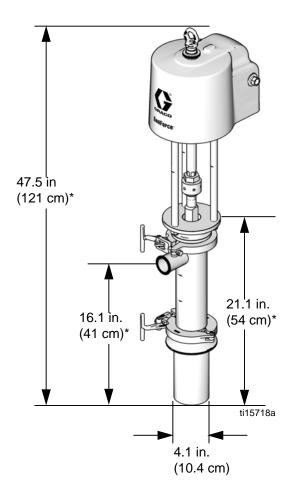
Spanner Wrench

			Qty
Ref.	Part	Description	
	112887	WRENCH, spanner	1

^{*} Parts included in Repair Kit 24G555 (Displacement Pump Model 24G761) or Repair Kit 24G556 (Displacement Pump Model 24G762).

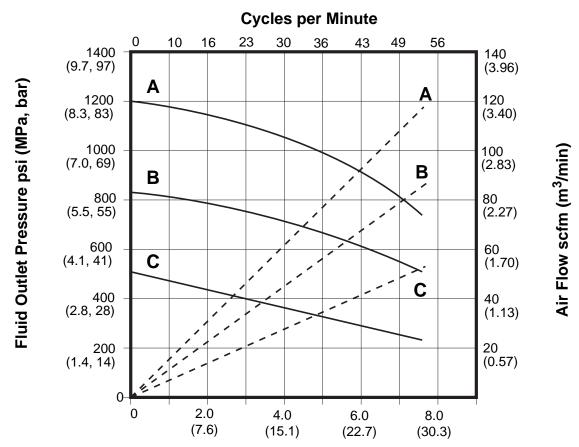
Parts

Dimensions

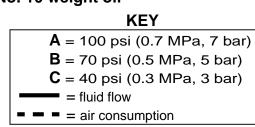


 * Add 4.7 in. (12 cm) to allow for full extension of the priming piston rod.

Performance Chart



Fluid Flow gpm (lpm) tested in No. 10 weight oil



Technical Data

Maximum Fluid Working Pressure.....

Maximum Air Inlet Pressure..... 100 psi (0.7 MPa, 6.9 bar) 60 cycles/min, 8.5 gpm (32 liters/min) delivery Maximum size pumpable solids 1/4 in. (6.4 mm) See Performance Chart, page 22 7.1 Ratio 12:1 Maximum Operating Temperature..... 160°F (71°C) Maximum Ambient Temperature (air motor) 120°F (49°C) 1/2 in. npt(f) Air Exhaust 3/4 in. npt(m) 4.1 in. (10.4 cm) tube with flange for 6 in. (15.2 cm) Tri-Clamp® Fluid Outlet 2 in. (5.1 cm) Tri-Clamp®

Wetted Parts stainless steel (300 series or other corrosion-resistant

grades), Acetal, Buna-N, PTFE, UHMWPE

1450 psi (10.1 MPa, 100.4 bar)

Sound data

 Sound power*
 77.2 dBA

 Sound pressure**
 70.5 dBA

^{*} Sound power at 70 psi (0.48 MPa, 4.8 bar), 20 cpm. Sound power measured per ISO-9614-2.

^{**} Sound pressure was tested 3.28 feet (1 m) from equipment.

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Original instructions. This manual contains English. MM 3A0735

Graco Headquarters: Minneapolis International Offices: Belgium, China, Japan, Korea

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