



This manual contains important warnings and information.
READ AND KEEP FOR REFERENCE.

INSTRUCTIONS

First choice when quality counts.™

Rev. M
Supersedes J
and PCN K

PORTABLE OR WALL MOUNT

23:1 Ratio Monark® Hydra-Spray® Sprayers

120 psi (0.8 MPa, 8 bar) Maximum Air Input Pressure
2760 psi (19.3 MPa, 193 bar) Maximum Fluid Working Pressure

Model 231-048, Series D

portable caster cart with severe-duty displacement pump*, hose, and gun

Model 224-626, Series A

portable universal cart with severe-duty displacement pump*

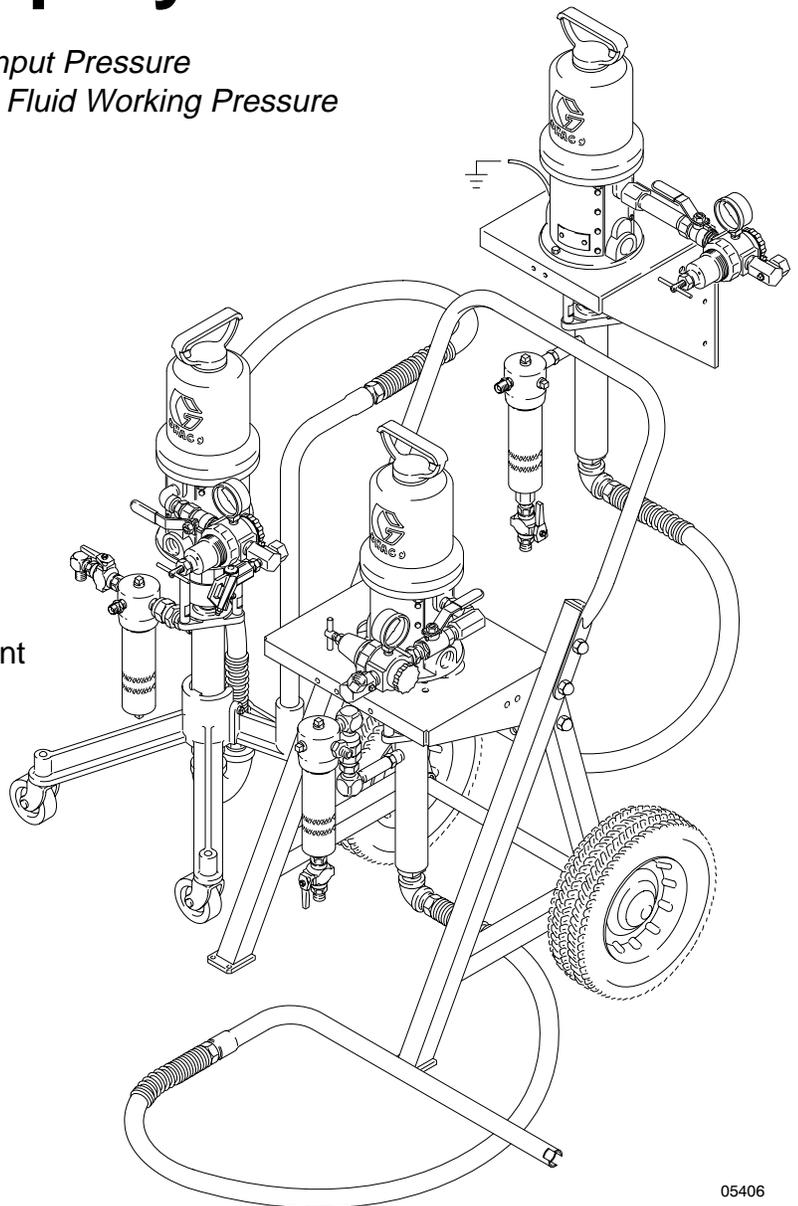
Model 231-159,

portable universal cart with severe-duty displacement pump*, hose, and gun

† Model 226-968, Series A

wall mount with severe-duty displacement pump*, hose, and gun

* Severe-duty displacement pumps have abrasion-resistant displacement rods and sleeves. Refer to **Technical Data** in the pump manual 307-619 for wetted parts information.



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Symbols

Warning Symbol



This symbol alerts you to the possibility of serious injury or death if you do not follow the corresponding instructions.

Caution Symbol



This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the corresponding instructions.

! WARNING



INSTRUCTIONS

EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.

- Read all instruction manuals, tags, and labels before operating the equipment.
- Use the equipment only for its intended purpose. If you are not sure, contact your Graco distributor.
- Do not alter or modify this equipment.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Do not exceed the maximum working pressure of the lowest rated system component. Refer to the **Technical Data** on page 15 for the maximum working pressure of this equipment.
- Use fluids and solvents which are compatible with the equipment wetted parts. Refer to the **Technical Data** section of all equipment manuals. Read the fluid and solvent manufacturer's warnings.
- Do not use hoses to pull equipment.
- Route hoses away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not expose Graco hoses to temperatures above 82°C (180°F) or below -40°C (-40°F).
- Do not lift pressurized equipment.
- Wear hearing protection when operating this equipment.
- Comply with all applicable local, state, and national fire, electrical, and safety regulations.

WARNING



INJECTION HAZARD

Spray from the gun, leaks, or ruptured components can inject fluid into your body and cause extremely serious injury, including the need for amputation. Fluid splashed into the eyes or onto the skin can also cause serious injury.

- Fluid injected into the skin might look like just a cut, but it is a serious injury. **Get immediate medical attention.**
- Do not point the gun at anyone or at any part of the body.
- Do not put your hand or fingers over the spray tip.
- Do not stop or deflect leaks with your hand, body, glove or rag.
- Do not “blow back” fluid; this is not an air spray system.
- Always have the tip guard and the trigger guard on the gun when spraying.
- Check the gun diffuser operation weekly. Refer to the gun manual.
- Be sure the gun trigger safety operates before spraying.
- Lock the gun trigger safety when you stop spraying.
- Follow the **Pressure Relief Procedure** on page 9 if the spray tip clogs and before cleaning, checking, or servicing the equipment.
- Tighten all fluid connections before operating the equipment.
- Check the hoses, tubes, and couplings daily. Replace worn or damaged parts immediately. Do not repair high pressure couplings; you must replace the entire hose.
- Fluid hoses must have spring guards on both ends, to help protect them from rupture caused by kinks or bends near the couplings.



TOXIC FLUID HAZARD

Hazardous fluid or toxic fumes can cause serious injury or death if splashed into the eyes or onto the skin, inhaled, or swallowed.

- Know the specific hazards of the fluid you are using.
- Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state, and national guidelines.
- Always wear protective eyewear, gloves, clothing, and a respirator as recommended by the fluid and solvent manufacturer.

WARNING



FIRE AND EXPLOSION HAZARD

Improper grounding, poor ventilation, open flames, or sparks can cause a hazardous condition and result in a fire or explosion and serious injury.

- Ground the equipment and the object being sprayed. Refer to **Grounding** on page 5.
- If there is any static sparking or you feel an electric shock while using this equipment, **stop spraying immediately**. Do not use the equipment until you identify and correct the problem.
- Provide fresh air ventilation to avoid the buildup of flammable fumes from solvents or the fluid being sprayed.
- Keep the spray area free of debris, including solvent, rags, and gasoline.
- Electrically disconnect all equipment in the spray area.
- Extinguish all open flames or pilot lights in the spray area.
- Do not smoke in the spray area.
- Do not turn on or off any light switch in the spray area while operating or if fumes are present.
- Do not operate a gasoline engine in the spray area.



MOVING PARTS HAZARD

Moving parts, such as the air motor piston, can pinch or amputate your fingers.

- Keep clear of all moving parts when starting or operating the pump.
- Before servicing the equipment, follow the **Pressure Relief Procedure** on page 9 to prevent the equipment from starting unexpectedly.

Installation

NOTES:

- Reference numbers and letters in parentheses in the text refer to the callouts in the figures and drawings.
- Accessories are available from your Graco representative. If you supply your own accessories, be sure they are adequately sized and pressure-rated to meet the system's requirements.

Grounding

⚠ WARNING

FIRE AND EXPLOSION HAZARD
Before operating the pump, ground the system as explained below. Also read the section **FIRE AND EXPLOSION HAZARD** on page 4.

- *Pump:* Use the ground wire and clamp. See Fig. 1. Loosen the grounding lug locknut (W) and washer (X). Insert one end of the ground wire (Y) into the slot in the lug (Z), and tighten the locknut securely. Connect the other end of the wire to a true earth ground.

For a ground wire and clamp, order Part No. 237-569.

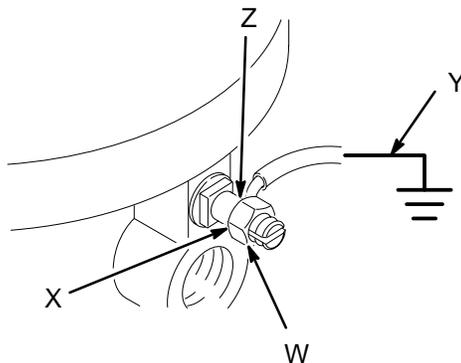


Fig. 1

- *Air and fluid hoses:* Use only grounded hoses with 500 ft (150 m) maximum combined hose length to ensure grounding continuity.
- *Air compressor:* Follow manufacturer's recommendations.
- *Spray gun or dispensing valve:* Connect to a properly grounded fluid hose and pump.
- *Object being sprayed:* Follow your local code.
- *Fluid supply container:* Follow your local code.
- *Solvent pails used when flushing:* Follow your local code. Use only metal pails, which are conductive, placed on a grounded surface. Do not place the pail on a nonconductive surface, such as paper or cardboard, which interrupts the grounding continuity.

To maintain proper grounding continuity when flushing or relieving pressure, always hold the metal part of the spray gun firmly to the side of a grounded metal pail, then trigger the gun.

Installation

Typical

The Typical Installation shown in Fig. 2 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.

KEY

- A Main air line
- B Bleed-type master air valve
(for accessories)
- C Air line filter
- D Air regulator
- E Bleed-type master air valve
(for pump)
- F Pump
- G Fluid filter
- H Fluid drain valve
- J Fluid hose
- K Airless spray gun
- L Pump fluid inlet elbow
- M Suction hose
- N Suction tube
- Y Ground wire

Model 226-968 shown

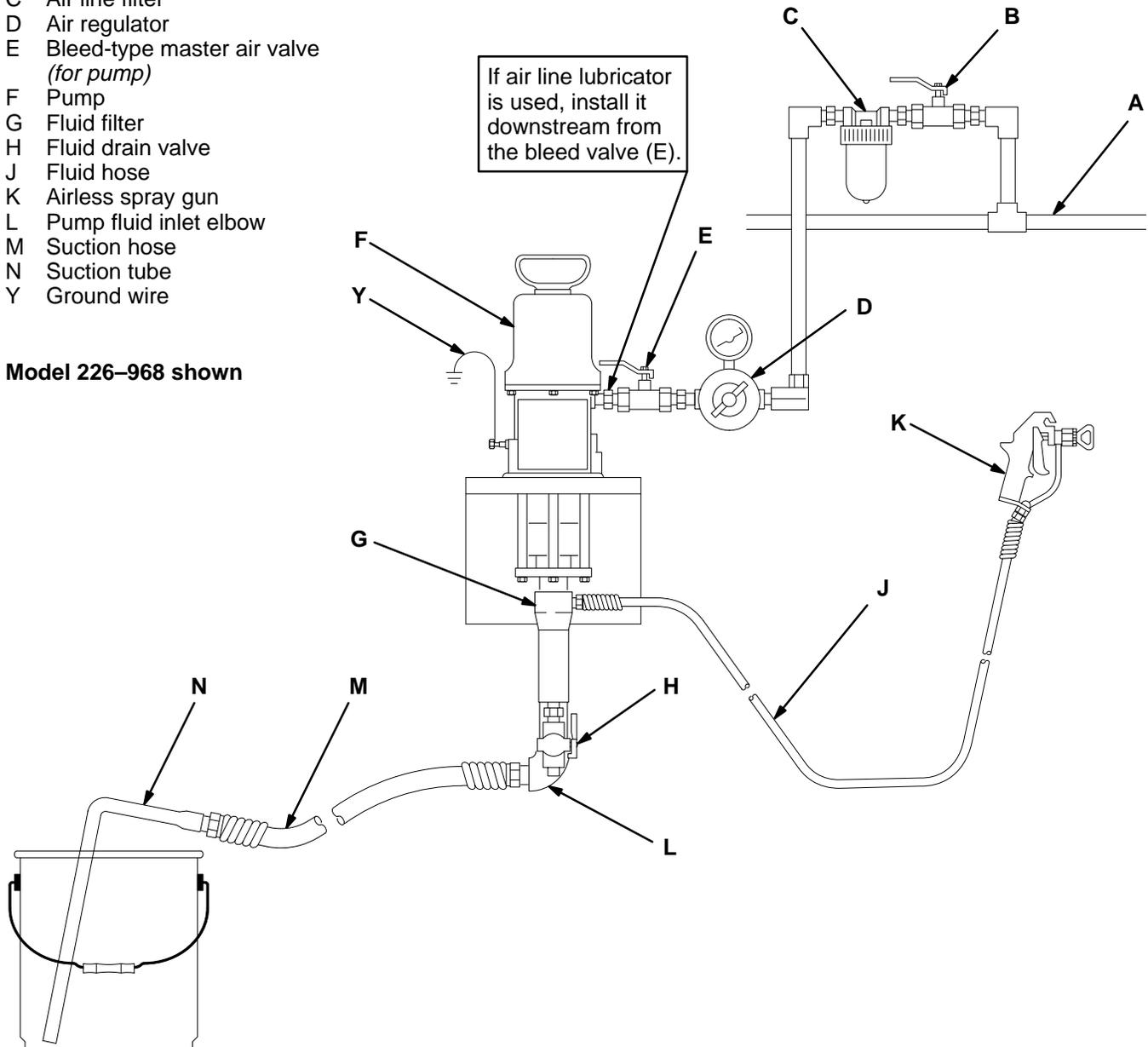


Fig. 2

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Installation

System Accessories

WARNING

A bleed-type master air valve (E) and a fluid drain valve (H) are required in your system. These accessories help reduce the risk of serious bodily injury including fluid injection, splashing in the eyes or on the skin, and injury from moving parts if you are adjusting or repairing the pump.

The bleed-type master air valve relieves air trapped between this valve and the pump after the air is shut off. Trapped air can cause the pump to cycle unexpectedly. Locate the valve close to the pump. Order Part No. 113–269.

The fluid drain valve assists in relieving fluid pressure in the displacement pump, hose, and gun. Triggering the gun to relieve pressure may not be sufficient. Never connect a secondary hose or spray gun to the fluid drain valve. The fluid drain valve is used only to help relieve fluid pressure in the displacement pump, hose, and gun.

Air Line Accessories

Install the following accessories in the order shown in Fig. 2, using adapters as necessary:

- **Air line lubricator (not shown)**
Install downstream from the air regulator (D) and bleed valve (E) to provide automatic air motor lubrication.
- **Bleed-type master air valve (E)**
Install **downstream** from the air regulator (D), and in a place that is easily accessible from the pump, to relieve air trapped between it and the air motor when the valve is closed (see the **Warning** above).

- **Air regulator (D)**
Install close to the pump, but **upstream** from the bleed-type master air valve to control pump speed and outlet pressure by adjusting the air pressure to the pump.
- **Air line filter (C)**
Install in the main air line (A) to remove harmful dirt and moisture from the compressed air supply.
- **Second bleed-type air valve (B)**
Install in the main air line (A) to isolate the accessories for servicing. Install it upstream from any other air line accessories.

Fluid Line Accessories

Install the following accessories in the positions shown in Fig. 2, using adapters as necessary:

- **Fluid drain valve (H)**
Install so that it points down, and the handle points up when it is opened, to relieve fluid pressure in the hose and gun (see the **Warning** at left).
- **Fluid filter (G)**
Install as shown in the **Parts** drawings on pages 12 through 14 to filter harmful particles from the fluid.
- **Spray gun (K)**
Install on the end of the fluid hose (J) to dispense the fluid. The gun shown in Fig. 2 is an airless spray gun.

Installation

Assembling the Sprayer

Model 231–048 (see page 12)

1. Push the four casters (25) into the stand (26).
2. Apply thread sealant, and screw the drain valve (31) into the fluid filter (16). Screw the elbow (32) onto the valve (31) so the male end of the elbow faces down.
3. Connect the gun swivel (4) and fluid hose (6) to the spray gun (8), and tighten them securely. Do not use thread sealant. **Do not** install the spray tip (27) in the gun yet. Before you install the spray tip, see **Starting and Adjusting the Pump** on page 9.
4. Screw the fluid hose (6) onto the nipple (35) at the outlet of the fluid filter (16), and tighten it securely.
5. Connect the suction hose (13) to the pump inlet adapter (5). Connect the tube (23) to the suction hose.

Model 226–968 (see page 13)

1. Using thread sealant, install the nipple (107), bleed valve (136), and air regulator (109) at the pump air inlet. Install the air gauge (108) in the regulator.
2. To mount the wall bracket (113), refer to its separate manual (supplied). Mount the pump on the bracket.
3. Apply thread sealant and screw the nipple (129) into the outlet of the fluid filter (101). Install the long nipple (102) and filter (101) at the pump fluid outlet.

4. Connect the gun swivel (128) and fluid hose (117) to the fluid inlet of the spray gun (115), and tighten them securely. Do not use thread sealant. **Do not** install the spray tip (116) in the gun yet. Before you install the spray tip, see **Starting and Adjusting the Pump** on page 9.
5. Screw the fluid hose (117) onto the nipple (129) at the outlet of the fluid filter (101), and tighten it securely.
6. Screw the inlet adapter (114) onto the pump intake. Connect the suction hose (120) to the pump inlet adapter (114). Connect the tube (118) to the suction hose.

Models 224–626 and 231–159 (see page 14)

Model 224–626 is shipped completely assembled.

To assemble Model 231–159:

1. Connect the gun swivel (244) and fluid hose (245) to the fluid inlet of the spray gun (246), and tighten them securely. Do not use thread sealant. **Do not** install the spray tip (247) in the gun yet. Before you install the spray tip, see **Starting and Adjusting the Pump** on page 9.
2. Screw the fluid hose (245) onto the nipple (222) at the outlet of the fluid filter (232), and tighten it securely.

Operation/Maintenance

Pressure Relief Procedure

⚠ WARNING



INJECTION HAZARD

The system pressure must be manually relieved to prevent the system from starting or spraying accidentally. Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the **Pressure Relief Procedure** whenever you:

- are instructed to relieve the pressure
- stop spraying
- check or service any of the system equipment
- install or clean the spray tip

1. Lock the gun trigger safety.
2. Shut off the air supply to the pump.
3. Close the bleed-type master air valve (required in your system).
4. Unlock the gun trigger safety.
5. Hold a metal part of the gun firmly to the side of a grounded metal pail, and trigger the gun to relieve pressure.
6. Lock the gun trigger safety.
7. Open the drain valve (required in your system), and have a container ready to catch the drainage.
8. Leave the drain valve open until you are ready to spray again.

If you suspect that the spray tip or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, slowly loosen the tip guard retaining nut or hose end coupling and relieve pressure gradually, then loosen it completely. Then clear the tip or hose.

Wet-Cup

Keep the wet-cup filled with Graco Throat Seal Liquid (TSL) or compatible solvent to help prolong the packing life. See manual 307–619 for additional care instructions.

NOTE: Flush the pump before first use.

The pump is tested with lightweight oil, which is left in to protect the pump parts. If the fluid you are using may be contaminated by the oil, flush the pump out with a compatible solvent before using the sprayer. See **Flushing the Pump** on page 10.

⚠ WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** at left.

Never allow the pump to run dry of the fluid being pumped. A dry pump will quickly accelerate to a high speed, possibly damaging itself. If your pump accelerates quickly, or is running too fast, stop it immediately and check the fluid supply. If the supply container is empty and air has been pumped into the lines, refill the container and prime the pump and the lines with fluid, or flush and leave it filled with a compatible solvent. Be sure to eliminate all air from the fluid system.

Starting and Adjusting the Pump

Begin these steps **before** you install the spray tip.

1. Ensure that the air regulator (D) and bleed-type master air valve (E) are closed. See Fig. 2 on page 6.
2. Connect a suction hose (M) to the pump's fluid inlet, or lower the pump into a fluid supply container.
3. Hold a metal part of the spray gun (K) firmly to the side of a grounded metal pail and hold the trigger open.
4. Open the pump's bleed-type master air valve (B).
5. Slowly open the air regulator (D) until the pump starts (at approximately 40 psi [2.8 bar]).
6. Cycle the pump slowly until all the air is pushed out and the pump and hoses are fully primed.
7. Release the spray gun trigger and lock the trigger safety. The pump should stall against pressure when you release the trigger.

Operation/Maintenance

WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 9.

8. **Relieve the pressure.**
9. Install the spray tip in the gun.
10. Control the pump speed and fluid pressure with the air regulator (D). Always use the lowest air pressure necessary to get the desired results. Higher pressure causes premature spray tip and pump wear.

WARNING

COMPONENT RUPTURE HAZARD



To reduce the risk of overpressurizing your system, which could cause component rupture and serious injury, *never exceed the specified maximum incoming air pressure to the pump* (see **Technical Data** on page 15).

With the pump and lines primed, and with adequate air pressure and volume supplied, the pump starts and stops as the spray gun is opened and closed. In a circulating system, the pump runs continuously and speeds up or slows down as supply increases or decreases until the air supply is shut off.

Shutdown and Care of the Pump

WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 9.

For overnight shutdown, **relieve the pressure**, and always stop the pump at the bottom of the stroke to prevent the fluid from drying on the exposed displacement rod and damaging the throat packings.

Always flush the pump before the fluid dries on the displacement rod. See **Flushing the Pump**.

Flushing the Pump

WARNING



FIRE AND EXPLOSION HAZARD

Before flushing, read the section **FIRE AND EXPLOSION HAZARD** on page 4. Be sure the entire system and flushing pails are properly grounded. Refer to **Grounding** on page 5.



Flush with a fluid that is compatible with the fluid you are pumping and with the wetted parts in your system. Check with your fluid manufacturer or supplier for recommended flushing fluids and flushing frequency. Always flush the pump before fluid dries on the displacement rod.

CAUTION

Never leave water or water-base fluid in the pump overnight. If you are pumping water-base fluid, flush with water first, then with a rust inhibitor such as mineral spirits. Relieve the pressure, but leave the rust inhibitor in the pump to protect the parts from corrosion.

WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 9.

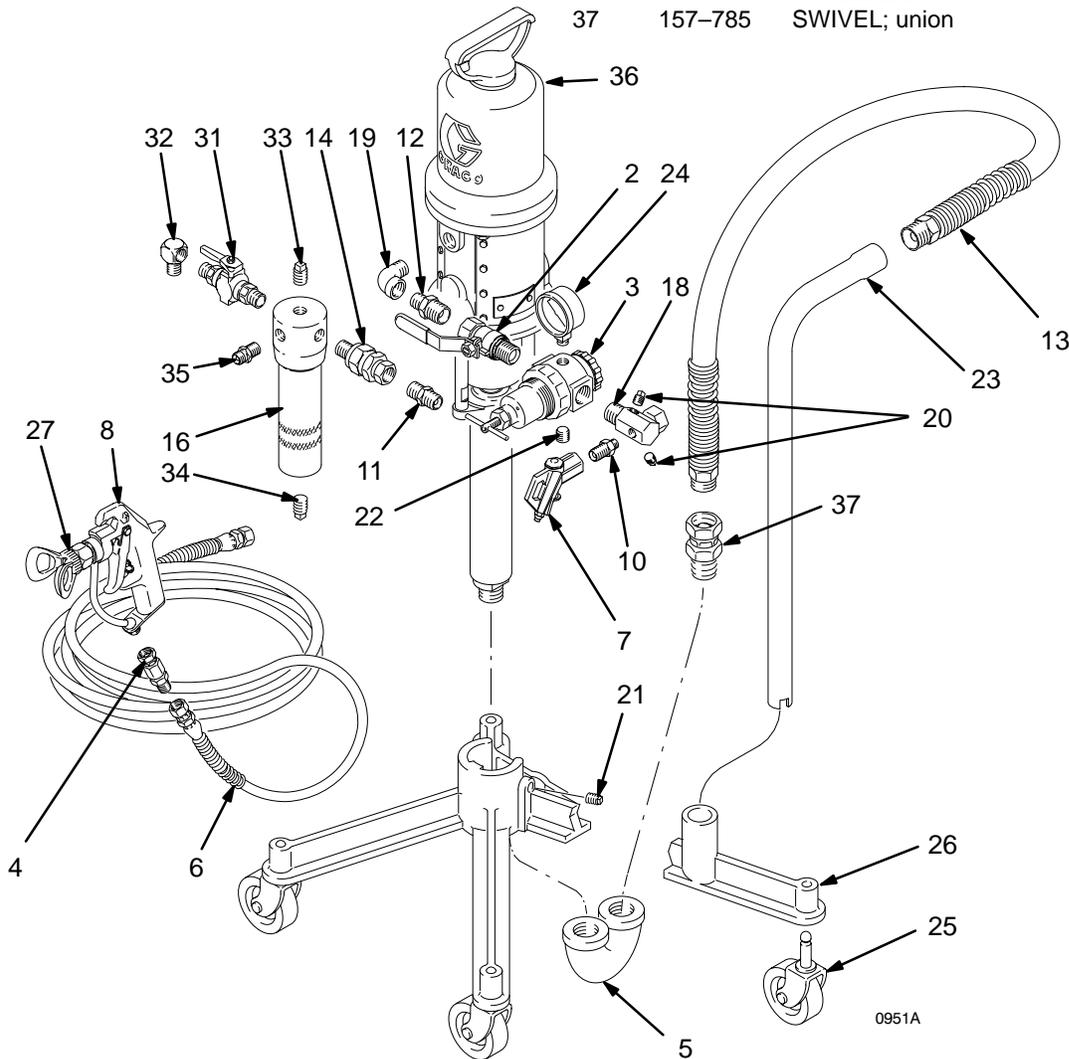
1. **Relieve the pressure.**
2. Remove the spray tip from the gun.
3. Hold a metal part of the gun firmly to the side of a grounded *metal* pail.
4. Start the pump. Always use the lowest possible fluid pressure when flushing.
5. Trigger the gun.
6. Flush the system until clear solvent flows from the gun.
7. **Relieve the pressure.**

Parts

Model 231-048, Series D

Caster cart sprayer—includes items 2 to 36

Ref No.	Part No.	Description	Qty.	Ref No.	Part No.	Description	Qty.
2	107-142	VALVE, air, bleed-type; 1/2 npt (m x f)	1	16	218-029	FLUID FILTER; see manual 307-273	1
3	104-267	AIR REGULATOR; 0 to 125 psi (0 to 0.9 MPa, 9 bar) range; see manual 308-167	1	18	162-376	MANIFOLD, air; 1/2 npt(m) x 1/2 npt(f) swivel; three 1/8 npt(f) tapped holes	1
4	204-940	SWIVEL; see manual 306-861	1	19	100-286	ELBOW, street, 90°; 3/8 npt (m x f)	1
5	102-170	ADAPTER, inlet; 3/4 npt(fbe)	1	20	100-403	PLUG, pipe, square hd; 1/8 npt	2
6	223-540	HOSE, fluid; nylon; 1/4 in. I.D.; cpld 1/4 npsm(fbe); 25 ft (7.6 m) long; spring guards both ends	1	21	100-672	SETSCREW, sq hd cup pt; 3/8 x 1 in. (25 mm)	2
7	208-625	GUN, air blow	1	22	100-721	PLUG, pipe, headless; 1/4 npt	1
8	235-462	SPRAY GUN, airless; see manual 308-236	1	23	165-767	SUCTION TUBE; 3/4 npt; 18 in. (457 mm) long	1
10	151-519	NIPPLE, reducing; 1/4 x 1/8 npt	1	24	101-180	GAUGE, pressure, air; 0 to 200 psi (0 to 1.4 MPa, 14 bar)	1
11	156-849	NIPPLE; 3/8 npt; 1.5 in. (38 mm) long	1	25	101-851	CASTER; 2.5 in. (64 mm) dia. wheel	4
12	159-239	NIPPLE; 1/2 x 3/8 npt	1	26	165-769	STAND, pump	1
13	214-960	HOSE, suction; 3/4 in. I.D.; nylon; coupled 3/4 npt (mbe); 3.5 ft (1 m) long, w/spring guard	1	27		SPRAY TIP (customer's choice)	1
14	206-831	CHECK VALVE; see manual 306-861	1	31	210-657	DRAIN VALVE; see manual 306-861	1
15	206-994	THROAT SEAL LIQUID; 8 oz (0.23 liters); not shown	1	32	100-840	ELBOW, street, 90°; 1/4 npt (m x f)	1
				33	100-040	PLUG, pipe; 3/8-18 npt	1
				34	100-509	PLUG, pipe; 1/4-18 npt	1
				35	162-453	NIPPLE; 1/4 npt x 1/4 npsm	1
				36	223-596	23:1 MONARK PUMP see manual 307-619	1
				37	157-785	SWIVEL; union	1

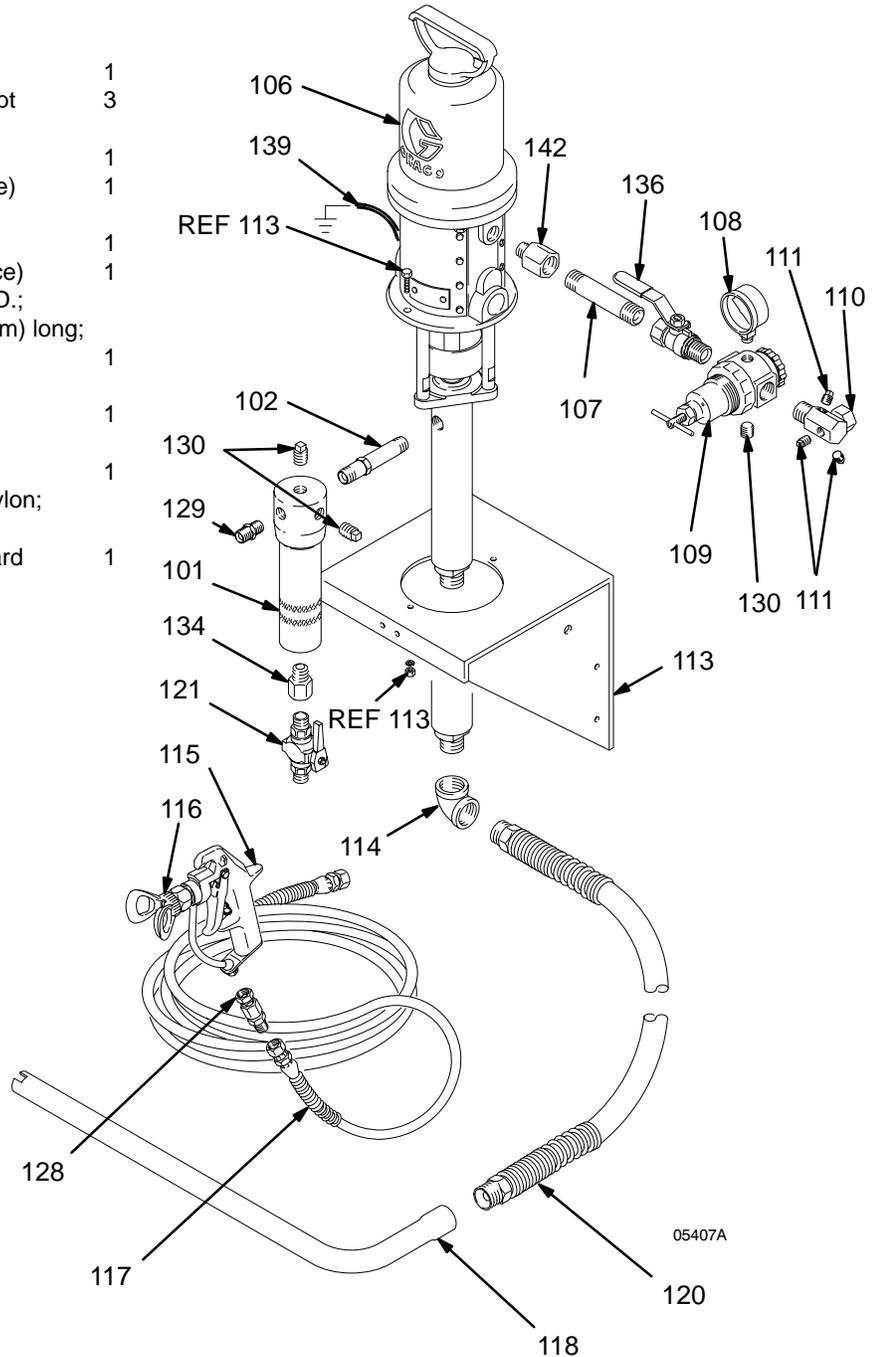


Parts

Model 226-968, Series A

Wall-mount sprayer—includes items 101 to 136

Ref No.	Part No.	Description	Qty.	Ref No.	Part No.	Description	Qty.
101	218-029	FLUID FILTER; see manual 307-273	1	121	210-658	DRAIN VALVE; see manual 306-861	1
102	160-790	NIPPLE, pipe; 3/8 npt	1	128	204-940	SWIVEL; see manual 306-861	1
106	223-596	23:1 MONARK PUMP; see manual 307-619	1	129	162-453	NIPPLE; 1/4 npt x 1/4 npsm	1
107	101-353	NIPPLE; 1/2 npt	1	130	100-509	PLUG, pipe; 1/4-18 npt	3
108	101-180	GAUGE, pressure, air; 0 to 200 psi (0 to 1.4 MPa, 14 bar)	1	134	150-286	ADAPTER; 3/8 npt(f) x 3/8 npt(m)	1
109	104-267	AIR REGULATOR; 0 to 125 psi (0 to 0.9 MPa, 9 bar) range; see manual 308-167	1	136	113-269	VALVE, ball, vented; 1/2-14 npt (m x f)	1
110	162-376	MANIFOLD, air; 1/2 npt(m) x 1/2 npt(f) swivel; three 1/8 npt(f) tapped holes	1	139	237-569	GROUND WIRE and CLAMP	1
111	100-403	PLUG, pipe, square hd; 1/8 npt	3	142	178-460	ADAPTER; 1/2 npt(f) x 3/8 npt(m)	1
113	207-365	BRACKET, wall mount; see manual 306-783	1				
114	100-349	ELBOW, inlet, 90°; 3/4 npt(fbe)	1				
115	235-462	SPRAY GUN, airless; see manual 308-236	1				
116		SPRAY TIP (customer's choice)	1				
117	214-698	HOSE, fluid; nylon; 3/16 in. I.D.; cpld 1/4 npsm(fbe); 25 ft (7.6 m) long; spring guards both ends	1				
118	165-767	SUCTION TUBE; 3/4 npt; 18 in. (457 mm) long	1				
119	206-994	THROAT SEAL LIQUID; 8 oz (0.23 liters); not shown	1				
120	214-961	HOSE, suction; 3/4 in. I.D.; nylon; coupled 3/4 npt (mbe); 6 ft (1.8 m) long, w/spring guard	1				



Parts

Model 224-626, Series A

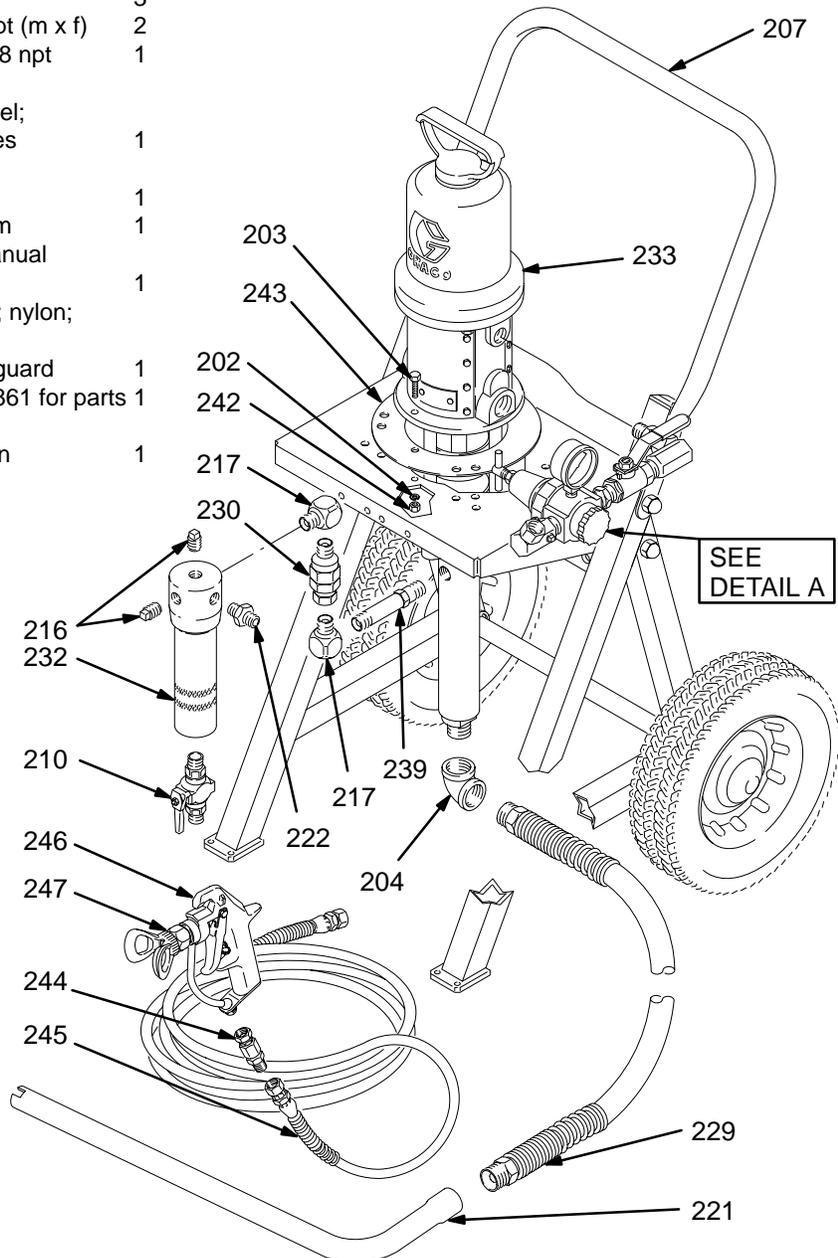
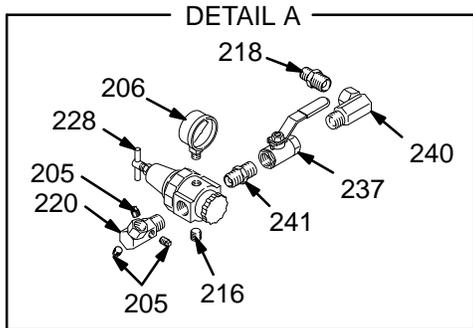
Universal cart sprayer—includes items 202 to 243

Model 231-159

Universal cart sprayer with hose and gun—includes items 202 to 247

Ref No.	Part No.	Description	Qty.
202	100-016	LOCKWASHER, spring; 1/4 in.	2
203	100-022	CAPSCREW, hex hd; 1/4-20 x 3/4 in. (19 mm) long	2
204	100-349	ELBOW, inlet, 90°; 3/4 npt(fbe)	1
205	100-403	PLUG, pipe, square hd; 1/8 npt	3
206	101-180	GAUGE, pressure, air; 0 to 200 psi (0 to 1.4 MPa, 14 bar)	1
207	224-044	CART; see manual 308-136	1
210	210-659	DRAIN VALVE; see manual 306-861	1
216	100-509	PLUG, pipe; 1/4-18 npt	3
217	155-699	ELBOW, street, 90°; 3/8 npt (m x f)	2
218	159-239	NIPPLE, reducing; 1/2 x 3/8 npt	1
220	162-376	MANIFOLD, air; 1/2 npt(m) x 1/2 npt(f) swivel; three 1/8 npt(f) tapped holes	1
221	165-767	SUCTION TUBE; 3/4 npt; 18 in. (457 mm) long	1
222	162-453	NIPPLE; 1/4 npt x 1/4 npsm	1
228	206-197	AIR REGULATOR; see manual 308-168	1
229	214-960	HOSE, suction; 3/4 in. I.D.; nylon; coupled 3/4 npt (mbe); 3.5 ft (1 m) long, w/spring guard	1
230	206-831	CHECK VALVE; see 306-861 for parts	1
231	206-994	THROAT SEAL LIQUID; 8 oz (0.23 liters); not shown	1

Ref No.	Part No.	Description	Qty.
232	218-029	FLUID FILTER; see manual 307-273	1
233	223-596	23:1 MONARK PUMP; see manual 307-619	1
237	110-225	BALL VALVE, bleed-type; 1/2 npt(fbe)	1
239	160-790	NIPPLE; 3/8-18 npt	1
240	155-470	UNION, swivel; 1/2 npt(m) x 1/2 npsm(f)	1
241	158-491	NIPPLE; 1/2 npt	1
242	100-015	NUT, hex; 1/4-20 unc-2A	2
243	188-595	MOUNTING PLATE, pump	1
244	204-940	SWIVEL; see manual 306-861	1
245	223-540	HOSE, fluid; nylon; 1/4 in. I.D.; cpld 1/4 npsm(fbe); 25 ft (7.6 m) long; spring guards both ends	1
246	235-460	SPRAY GUN, airless see manual 308-236	1
247		SPRAY TIP (customer's choice)	1



Technical Data

Category	Data
Maximum Working Pressure	2760 psi (19.3 MPa, 193 bar)
Maximum Incoming Air Pressure	120 psi (0.8 MPa, 8 bar)
Ratio	23:1
Sound Data*	
Sound Pressure Level	85 dB(A)
Sound Power Level	96 dB(A)
Maximum Fluid Temperature**	180° F (82° C)
Weight (Model 226–968)	62 lbs (28 kg)
Wetted Parts†	
Suction Hose and Tube	nylon, aluminum
Fluid Hose	nylon, carbon steel fittings
Fluid Fittings	zinc-plated carbon steel

* Sound levels were measured at 100 psi (0.7 MPa, 7 bar), air, at 60 cycles per minute per ISO 3744-1981.

** In most cases, the hose is the limiting factor in the temperature rating. For higher-temperature applications, contact your local distributor for additional information.

† See the instruction manuals of the individual sprayer models for additional wetted parts information and other technical data.

Manual Change Summary

This manual was revised to include the changes from ECO V4386, V3697, and PCN K.

Graco Standard Warranty

Graco warrants all equipment manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor 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.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

Graco makes no warranty, and disclaims all implied warranties of merchantability and fitness for a particular purpose in connection with accessories, equipment, materials or components sold but not manufactured by Graco. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

FOR GRACO CANADA CUSTOMERS

The parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English. Les parties reconnaissent avoir convenu que la rédaction du présente document sera en Anglais, ainsi que tous documents, avis et procédures judiciaires exécutés, donnés ou intentés à la suite de ou en rapport, directement ou indirectement, avec les procédures concernées.

Graco Phone Number

TO PLACE AN ORDER, contact your Graco distributor, or call this number to identify the distributor closest to you:
1-800-367-4023 Toll Free.

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Sales Offices: Minneapolis, Detroit, Los Angeles
Foreign Offices: Belgium, Canada, England, Korea, France, Germany, Hong Kong, Japan

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