INSTRUCTIONS-PARTS LIST



First choice when

quality counts."

Rev. J Supersedes Rev H and PCN J

04971

308-230



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



STAINLESS STEEL FLUID FITTINGS, **ACETAL PUMP WITH TEFLON® DIAPHRAGM**

0.7 MPa, 7 bar (100 psi) Maximum Fluid Working Pressure 0.7 MPa, 7 bar (100 psi) Maximum Air Input Pressure

Model 236–870, Series A Pail Mount Unit with Fluid Regulator

Model 224–833, Series B Pail Mount Unit with Fluid Regulator and Hose Kit

Model 236–412, Series A Pail Mount Unit with Surge Tank and Hose Kit

Model 236–869. Series A Wall Mount Unit with Surge Tank and Suction Kit

Model 236–628, Series A Wall Mount Unit with Surge Tank and Hose Kit

Model 236–414, Series A Wall Mount Unit with Surge Tank, Suction Kit, and Hose Kit

Model 236–868, Series A Wall Mount Unit with Surge Tank

CE

DDD Model 224–833 Shown (Pail is not included)

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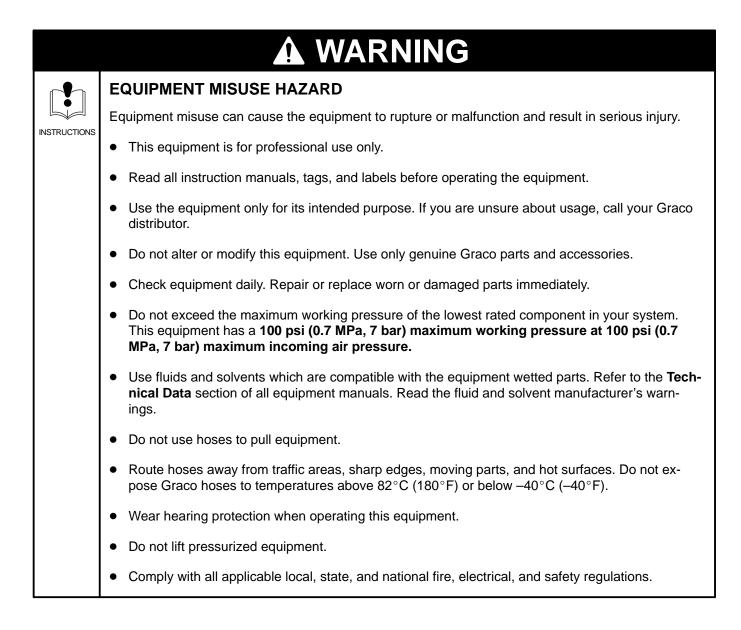
Warning Symbol

WARNING

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

Caution Symbol

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





TOXIC FLUID HAZARD

Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on 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 respirator as recommended by the fluid and solvent manufacturer.
- Pipe and dispose of the exhaust air safely, away from people, animals, and food handling areas. If the diaphragm fails, the fluid is exhausted along with the air. See **Air Exhaust Ventilation** in the separate pump manual 308–553.

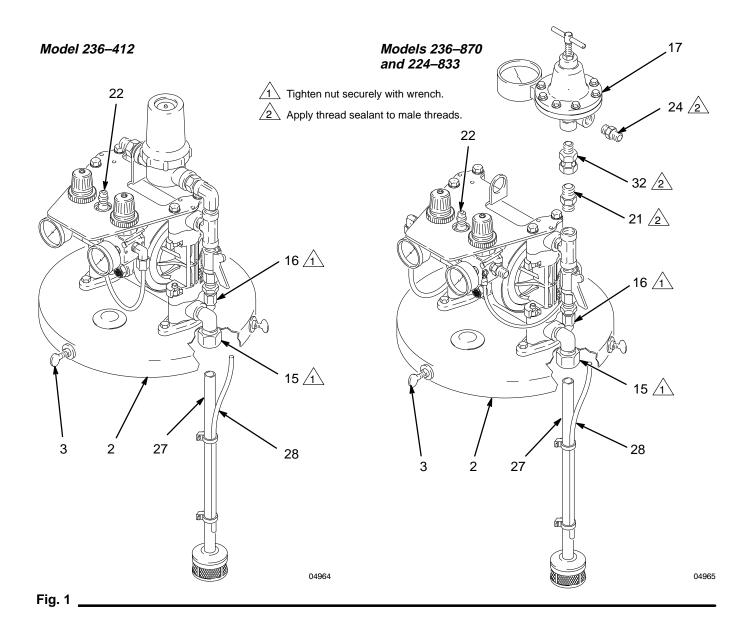
FIRE AND EXPLOSION HAZARD

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. Refer to **Grounding** on page 9.
- If there is any static sparking or you feel an electric shock while using this equipment, **stop pumping 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 pumped.
- Pipe and dispose of the exhaust air safely, away from all sources of ignition. If the diaphragm fails, the fluid is exhausted along with the air. See **Air Exhaust Ventilation** in the separate pump manual 308–553.
- Keep the work area free of debris, including solvent, rags, and gasoline.
- Electrically disconnect all equipment in the work area.
- Extinguish all open flames or pilot lights in the work area.
- Do not smoke in the work area.
- Do not turn on or off any light switch in the work area while operating or if fumes are present.
- Do not operate a gasoline engine in the work area.

Assembling Pail Mount Units

- 1. Insert the suction tube (27) into the elbow (15) to its full depth. Tighten the nut securely. See Fig. 1.
- Insert the recirculation tube (28) into the connector (16) to its full depth. Tighten the nut securely.
- 3. On Models 236–870 and 224–833, assemble the Fluid Regulator Kit (items 17, 21, 24 and 32) as shown in Fig. 1.
- 4. Attach the pail cover (2) to a pail of fluid, using the thumbscrews (3). Tighten securely.



Assembling the Wall Mount Unit

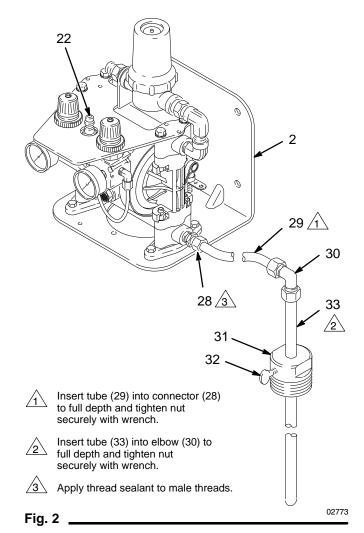
Install the wall bracket (2) 5 ft (1.52 m) above the floor. Use the mounting hole layout shown on page 18. Be sure the wall is strong enough to support the weight of the pump and hoses, any accessories, the fluid, and stress caused by pump operation.

The following steps apply to Model 236–414 only: Apply thread sealant and screw the connector (28) into the pump's fluid inlet. See Fig. 2.

Slide the bung plug (31) onto the suction tube (33). Push the 0.625 in. (16 mm) OD suction tube into the elbow (30) to its full depth, then tighten the nut securely with a wrench.

Push the 0.5 in. (13 mm) OD flexible tube (29) into the elbow (30) to its full depth, then tighten the nut securely with a wrench. Push the other end of the flexible tube into the connector (28) to its full depth, then tighten the nut securely with a wrench.

Screw the bung plug (31) into the drum bung opening. Adjust the suction tube (33) so the end of the tube is about 1/2 in. (13 mm) off the bottom of the drum, and secure using the thumbscrew (32).



General Information

- The Typical Installations shown on pages 7 and 8 are only a guide for selecting and installing system components. Contact your Graco distributor or Graco Technical Assistance (see back page) for assistance in planning a system to suit your needs.
- Always use Genuine Graco Parts and Accessories, available from your Graco distributor. Refer to the Product Data Sheet for the pump, Form No. 305–528. If you supply your own accessories, be sure they are adequately sized and pressure rated for your system.
- Use a compatible, liquid thread sealant or Teflon[®] tape on all male threads. Tighten all connections firmly to avoid air or fluid leaks. *Do not overtighten plastic threads.*
- 4. Reference numbers and letters in parentheses refer to the callouts in the Figures and the parts lists on pages 12–17.

WARNING

TOXIC FLUID HAZARD

Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, or

swallowed.

- 1. Read TOXIC FLUID HAZARD on page 3.
- 2. 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.

Accessories

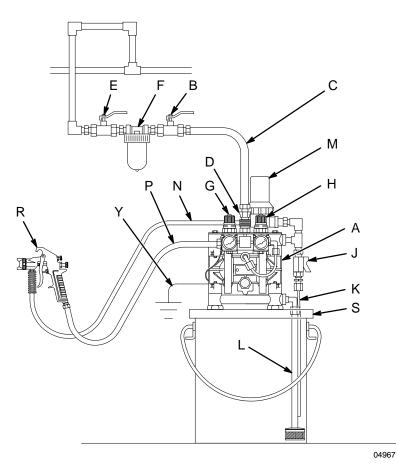
A bleed-type master air valve (B) is required in your system to relieve air trapped between this valve and the pump. Trapped air can cause the pump to cycle unexpectedly, which could result in serious injury, including splashing in the eyes or on the skin, injury from moving parts, or contamination from hazardous fluids.

A fluid drain valve (J) is required in your system to relieve pressure in the hose if it is plugged. (The fluid recirculation valve supplied with Models 236–870, 224–833, and 236–412 will serve this purpose.) The drain valve reduces the risk of serious injury, including splashing in the eyes or on the skin, or contamination from hazardous fluids when relieving pressure. Install the valve close to the pump's fluid outlet.

- Install the air line accessories as shown in Figs. 3 and 4. Mount these accessories on the wall or on a bracket. Be sure the air line supplying the accessories is grounded.
 - a. Locate one bleed-type master air valve (B) close to the pump and use it to relieve trapped air. See the WARNING above. Locate the other master air valve (E) upstream from all air line accessories and use it to isolate them during cleaning and repair.
 - b. The air line filter (F) removes harmful dirt and moisture from the compressed air supply.
- Install an electrically conductive, flexible air hose (C) between the accessories and the pump. Use a minimum 1/4" (6.3 mm) ID air hose. Screw an air line quick disconnect coupler (D) onto the end of the air hose (C). Do not connect the coupler (D) to the air inlet fitting (22, see Figs. 1 and 2) yet.

Hose Connections

- 1. Read the entire spray gun manual before connecting the hoses and operating the sprayer.
- Connect a fluid hose (N) between the pump fluid outlet fitting and the fluid inlet of the spray gun (R). See Figs. 3 and 4.
- Connect an electrically conductive air hose (P) between the outlet fitting of the gun air regulator (G) and the air inlet of the spray gun (R).



Air Spray Typical Installation -Pail Mount Models with Surge Tank KEY

- Husky 307 Pump А
- Bleed-Type Master Air Valve В (required for pump)
- С Air Supply Line
- Air Line Quick Disconnect D
- Е Master Air Valve (for accessories)
- F Air Line Filter
- G Gun Air Regulator
- Pump Air Regulator н
- Fluid Drain Valve (required) J
- Fluid Recirculation Line Κ
- L Fluid Suction Line
- Μ Surge Tank and Filter
- Gun Fluid Supply Hose Ν
- Gun Air Supply Hose Ρ
- R Air Spray Gun
- Pail Cover
- S Ŷ
- Ground Wire (included) See page 9 for grounding instructions.

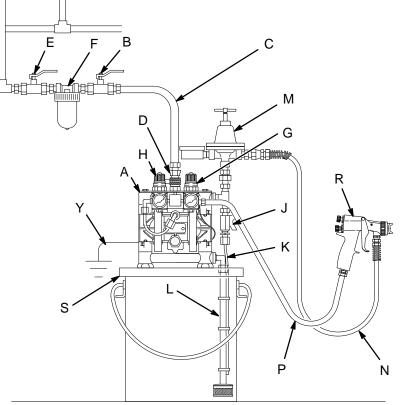
NOTE: Some components shown are included with the sprayer, depending on the model. Refer to the parts lists on pages 12-17 for parts included in your sprayer.

HVLP Typical Installation -Pail Mount Models with Fluid Regulator

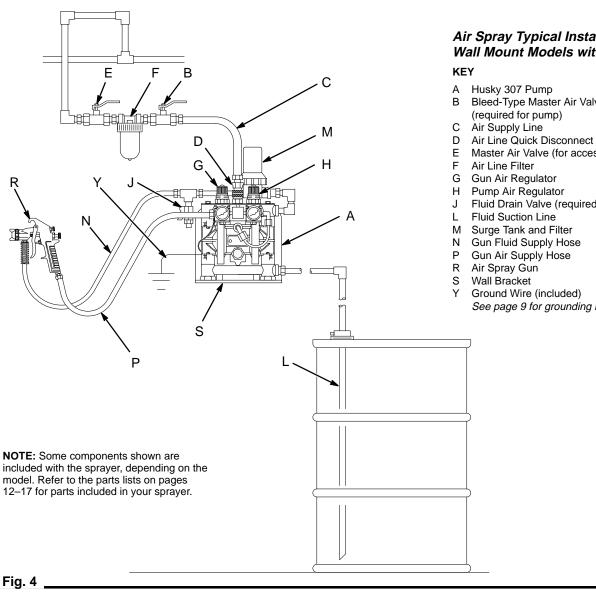
KEY

- Husky 307 Pump А
- В Bleed-Type Master Air Valve (required for pump)
- С Air Supply Line
- Air Line Quick Disconnect D
- Е Master Air Valve (for accessories)
- F Air Line Filter
- G Gun Air Regulator
- H Pump Air Regulator
- Fluid Drain Valve (required) J
- Κ Fluid Recirculation Line
- Fluid Suction Line L
- Fluid Regulator and Gauge Μ
- Gun Fluid Supply Hose Ν
- Р Gun Air Supply Hose
- R Optimiser HVLP Spray Gun
- S Pail Cover
- Y Ground Wire (included)
- See page 9 for grounding instructions.

NOTE: Some components shown are included with the sprayer, depending on the model. Refer to the parts lists on pages 12-17 for parts included in your sprayer.



04966



Air Spray Typical Installation -Wall Mount Models with Surge Tank

- Bleed-Type Master Air Valve
- Master Air Valve (for accessories)
- Fluid Drain Valve (required)
- - See page 9 for grounding instructions.

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Grounding

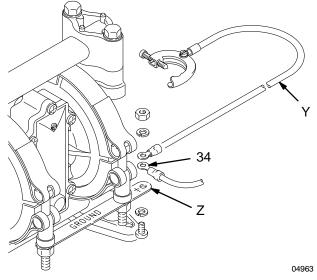


WARNING

FIRE AND EXPLOSION HAZARD This pump must be grounded. Before operating the pump, ground the system as explained below. Also read the section **FIRE OR EXPLOSION HAZARD** on page 3.

To reduce the risk of static sparking, ground the pump and all other equipment used or located in the pumping area. Check your local electrical code for detailed grounding instructions for your area and type of equipment. *Ground all of this equipment.*

1. *Pump*: One end of the ground wire (Y) is connected to the pump grounding strip (Z). Connect the clamp end of the ground wire to a true earth ground.





- 2. *Air and fluid hoses*: Use only electrically conductive hoses.
- 3. *Spray gun:* The spray gun and the gun air hose are grounded with a ground wire (34) connected between the gun air regulator and the pump grounding strap (Z).
- 4. Object being sprayed: Follow your local code.
- 5. Fluid supply container: Follow your local code.
- 6. *Air compressor*. Follow the manufacturer's recommendations.
- 7. Solvent pails used when flushing: Follow your local code. Use only metal pails, which are conductive. Do not place the pail on a non-conductive surface, such as paper or cardboard, which interrupts the grounding continuity.

Operation

Pressure Relief Procedure

WARNING

PRESSURIZED EQUIPMENT HAZARD

The system pressure must be manually relieved to prevent the system from starting or spraying accidentally. To reduce the risk of an injury from accidental spray from the gun, 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,
- or install or clean the spray tips.
- 1. Shut off the air to the pump.
- 2. Trigger the spray gun.
- 3. Open the fluid drain valve to relieve all fluid pressure, having a container ready to catch the drainage.

Flush the Pump Before First Use

The pump was tested in water. If the test solution could contaminate the fluid you are pumping, flush the pump thoroughly with a compatible solvent. Follow the procedure in **Starting and Adjusting the Pump.**

Starting and Adjusting the Pump

WARNING

TOXIC FLUID HAZARD

Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, or

swallowed. Do not lift a pump under pressure. If dropped, the fluid section may rupture. Always follow the **Pressure Relief Procedure** above before lifting the pump.

- 1. Be sure the pump is properly grounded. Read **FIRE OR EXPLOSION HAZARD** on page 3.
- Check all fittings to be sure they are tight. Be sure to use a compatible liquid thread sealant or Teflon[®] tape on all male threads. Tighten the fluid inlet and outlet fittings snugly. Do not overtighten the fittings into the pump.
- 3. **On pail mount units,** place the suction tube in a pail of fluid and attach the pail cover using the thumbscrews. Tighten securely.

On wall mount units, install the suction tube and bung plug in the fluid supply drum as explained on page 5.

- Make sure the air regulators (G and H) and bleed valves (B and E) are closed. Open the fluid drain valve (J).
- 5. Connect the air line coupler (D) to the air inlet fitting.
- 6. With the gun air regulator (G) closed, open the bleed-type master air valves (B, E) and the pump air regulator (H).
- 7. Allow the pump to cycle slowly until all air is pushed out of the recirculation line and the pump is primed.
- 8. Point the spray gun (R) into a grounded metal pail, holding a metal part of the gun firmly to the side of the pail.
- Trigger the air spray gun. Open the gun air regulator (G) and close the fluid drain valve (J). Allow the pump to cycle slowly until all air is pushed out of the fluid hose and gun.

If you are flushing, run the pump long enough to thoroughly clean the pump and hoses. Close the air regulator. Remove the suction tube from the solvent and place it in the fluid to be pumped.

Operation

Pump Shutdown

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 10.

At the end of the work shift, relieve the pressure.

Flushing and Storage

WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 10.

Flush the pump when necessary to prevent the fluid you are pumping from drying or freezing in the pump and damaging it. Use a compatible solvent.

Before storing the pump, always flush the pump and **relieve the pressure.**

Recirculation Line

The recirculation tube (K, supplied with Models 236–870, 224–833, and 236–412) drains unused fluid back into the fluid container, ensuring an even flow at the gun. Recirculation also provides gentle fluid agitation. To recirculate fluid, open the drain valve (J) while you are spraying. To stop recirculation, close the valve.

Surge Tank (Models 236–628, 236–869, 236–412, 236–868, and 236–414)

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 10.

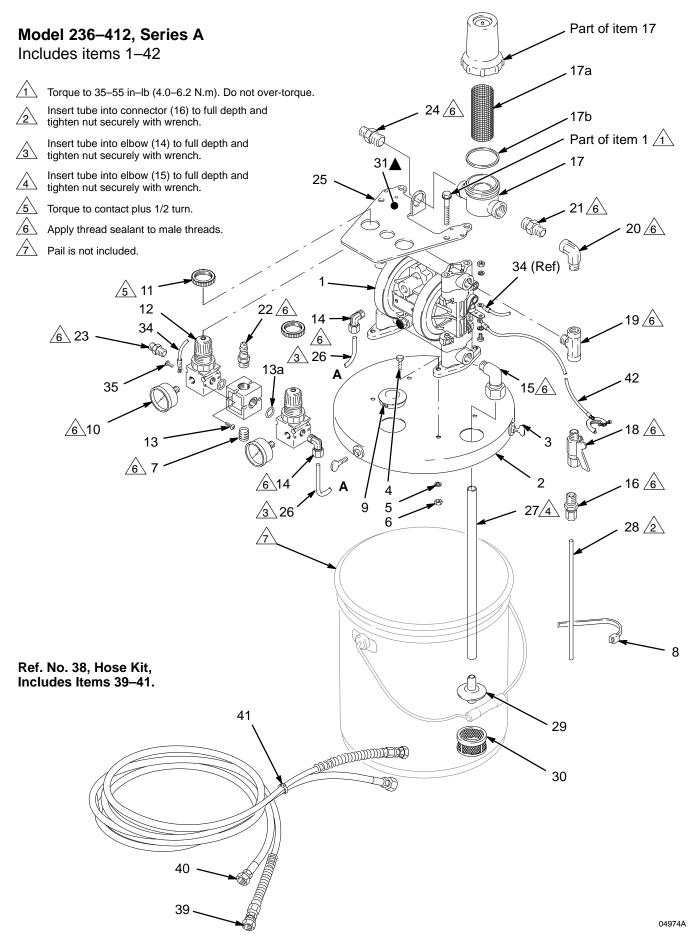
The surge tank filter screen may require periodic cleaning. First, **relieve the pressure.** Unscrew the surge tank cover from its base and remove the filter screen. Clean the screen with a compatible solvent and reinstall it in the surge tank.

An optional Viton[®] gasket is supplied for the surge tank, for use in applications where the standard EPDM gasket is unsuitable.

Model 236-412, Series A

Includes items 1–42

Ref No.	Part No.	Description	Qty	Ref No.	Part No.	Description Qty
1	D31–331	PUMP, Husky 307; SST/Teflon®;		20	112–026	ELBOW, street; 3/8 npt (m x f); sst 1
		See 308–553 for parts	1	21	112–027	NIPPLE; 1/2 npt x 3/8 npt; sst 1
2	235–505	COVER, pail; stainless steel	1	22	169–971	FITTING, air line; 3/8 npt(m) 1
3	111–276	THUMBSCREW; 5/16–18 unc;		23	188–077	NIPPLE; 1/4–18 npt x 1/4–18.6 sf; cst 1
		1" (25.4 mm) long; sst	3	24	188–380	NIPPLE; 1/2 npt x 3/8–18.6 sf; sst 1
4	104–119	SCREW, cap, hex hd; 1/4–20 unc–2a	;	25	188–093	BRACKET, air regulator 1
		0.875" (22 mm) long; sst	4	26	188–107	TUBE, inlet, air; nylon;
5	104–123	LOCKWASHER; 1/4" size; sst	4			0.25" (6.3 mm) OD; 0.170" (4.3 mm) ID;
6	102–025	NUT, hex; 1/4–20; sst	4			7.5" (191 mm) long 1
7	101–754	PLUG, pipe; 3/8 npt	1	27	188–108	TUBE, suction; nylon;
8	103–473	TIE, recirculation tube	3			0.625" (16 mm) OD x 0.5" (13 mm) ID;
9	111–813	PLUG, button	1			12.13" (308 mm) long 1
10	108–190	GAUGE, air pressure;		28	188–115	TUBE, recirculation, fluid; nylon;
		0–100 psi (0–0.7 MPa, 0–7 bar)	2			0.25" (6.3 mm) OD;
11	110–209	NUT, regulator	2			0.170" (4.3 mm) ID; 19" (483 mm) long 1
12	111–804	REGULATOR, air;		29	181–163	HOUSING, filter, inlet; nylon 1
		0–125 psi (0–0.85 MPa, 0–8.5 bar)		30	181–164	FILTER, inlet; nylon 1
		pressure range	2	31	189–220	LABEL, warning 1
13	111–805	BLOCK, diverter		34	223–324	GROUND WIRE; 12" (300 mm);
		Includes item 13a	1			from gun air regulator to pump 1
13a	108–284	. O-RING; buna-N	3	35	108–290	SCREW, machine;
14	111–807	ELBOW, tube fitting, 90°; acetal;				8–32 x 1/4" (6.3 mm) 1
		1/4 npt(m) x ferrule nut for	-	38	236–410	HOSE KIT
		0.25" (6.3 mm) OD tube	2			Includes items 39–41 1
15	111–808	ELBOW, tube fitting, 90°; acetal;		39	235–339	. HOSE, fluid; nylon; sst fittings;
		3/8 npt(m) x ferrule nut for				3/8 npsm (fbe); 1/4" (6.3 mm) ID;
4.0		0.625" (16 mm) OD tube	1	4.0		26 ft (7.9 m) long 1
16	111–811	CONNECTOR, tube fitting; acetal;		40	210–867	. HOSE, air; buna-N; cst fittings
		3/8 npt(m) x ferrule nut for				1/4 npsm (fbe); 5/16" (7.9 mm) ID;
47	444 700	0.25" (6.3 mm) OD tube	1		100 170	25 ft (7.6 m) long 1
17	111–793	TANK, surge; 1/2 npt(f); nylon		41	102-478	. TIE, hose 13
		Includes items 17a and 17b	1	42	222–011	GROUND WIRE; 12 gauge (1.5 mm ²),
17a	111-884	. SCREEN, 20 mesh; sst	1			25 ft (7.6 m); with clamp 1
17b	112-035	. GASKET; EPDM (standard part)	1			
	111–885	. GASKET; Viton®;		Use o	only GENUINI	E GRACO PARTS AND ACCESSORIES.
10	007 504	(alternative to EPDM; shipped loose	,			
18	237-534	VALVE, ball; 3/8 npt (m x f); sst	1			
19	111–928	TEE; 3/8 npt(f) run x	4			Danger and Warning labels, tags and cards
		3/8 npt(m) branch; sst	1	ar	e available a	t no cost.



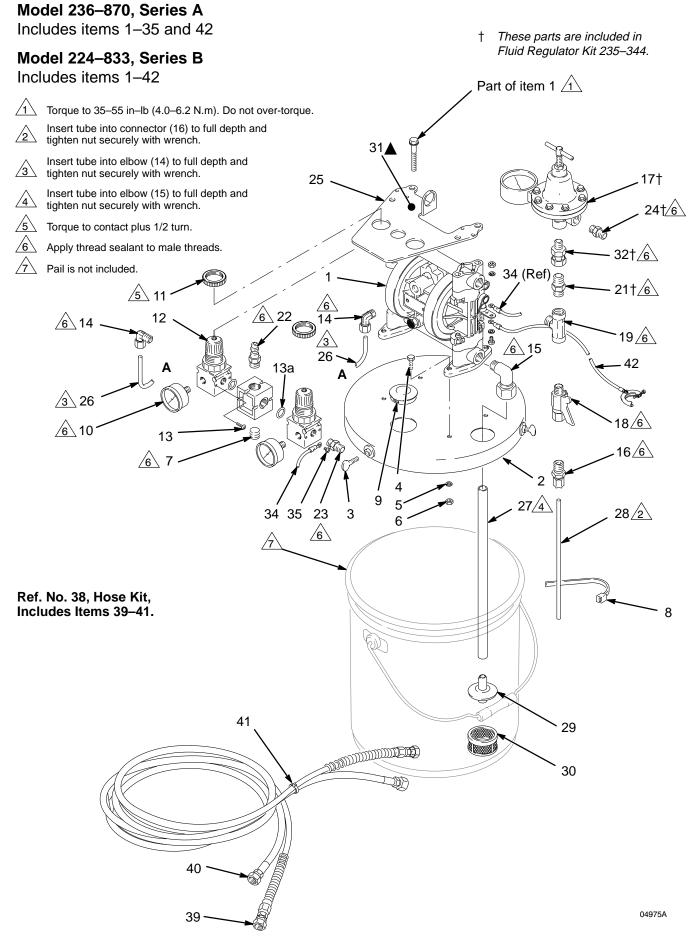
Model 236-870, Series A

Includes items 1-35 and 42

Model 224-833, Series B

Includes items 1-42

Ref No.	Part No.	Description	Qty	Ref No.	Part No.	Description Qty
1	D31–331	PUMP, Husky 307; SST/Teflon®;		23	188–077	NIPPLE; 1/4-18 npt x 1/48.6 sf; cst 1
		See 308–553 for parts	1	24†	189–436	NIPPLE; 1/4-18 npt x 3/8–18.6 sf; sst 1
2	235–505	COVER, pail; stainless steel	1	25	188–093	BRACKET, air regulator 1
3	111–276	THUMBSCREW; 5/16–18 unc;		26	188–107	TUBE, inlet, air; nylon;
		1" (25.4 mm) long; sst	3			0.25" (6.3 mm) OD; 0.170" (4.3 mm) ID;
4	104–119	SCREW, cap, hex hd; 1/4-20 unc-	2a;			7.5" (191 mm) long 1
		0.875" (22 mm) long; sst	4	27	188–108	TUBE, suction; nylon;
5	104–123	LOCKWASHER; 1/4" size; sst	4			0.625" (16 mm) OD x 0.5" (13 mm) ID;
6	102–025	NUT, hex; 1/4–20; sst	4			12.13" (308 mm) long 1
7	101–754	PLUG, pipe; 3/8 npt	1	28	188–115	TUBE, recirculation, fluid; nylon;
8	103–473	TIE, recirculation tube	3			0.25" (6.3 mm) OD;
9	111–813	PLUG, button	1			0.170" (4.3 mm) ID; 19" (483 mm) long 1
10	108–190	GAUGE, air pressure;		29	181–163	HOUSING, filter, inlet; nylon 1
		0–100 psi (0–0.7 MPa, 0–7 bar)	2	30	181–164	FILTER, inlet; nylon 1
11	110–209	NUT, regulator	2	31	189–220	LABEL, warning 1
12	111–804	REGULATOR, air;		32†	112–497	SWIVEL, union; 1/4-18 npt x
		0–125 psi (0–0.85 MPa, 0–8.5 bar)				3/8–18.6 npsm 1
		pressure range	2	34	223–324	GROUND WIRE; 12" (300 mm);
13	111–805	BLOCK, diverter				from gun air regulator to pump 1
		Includes item 13a	1	35	108–290	SCREW, machine;
13a	108–284	. O-RING; buna-N	3			8–32 x 1/4" (6.3 mm) 1
14	111–807	ELBOW, tube fitting, 90°; acetal;		38	236–410	HOSE KIT
		1/4 npt(m) x ferrule nut for				Includes items 39–41 1
		0.25" (6.3 mm) OD tube	2	39	235–339	. HOSE, fluid; nylon; sst fittings;
15	111–808	ELBOW, tube fitting, 90°; acetal;				3/8 npsm (fbe); 1/4" (6.3 mm) ID;
		3/8 npt(m) x ferrule nut for		40		26 ft (7.9 m) long 1
4.0		0.625" (16 mm) OD tube	1	40	210–867	. HOSE, air; buna-N; cst fittings;
16	111–811	CONNECTOR, tube fitting; acetal;				1/4 npsm (fbe); 5/16" (7.9 mm) ID;
		3/8 npt(m) x ferrule nut for			100 170	25 ft (7.6 m) long 1
474	000 440	0.25" (6.3 mm) OD tube	1	41	102-478	. TIE, hose 13
17†	236–449	REGULATOR, fluid; acetal;		42	222–011	GROUND WIRE; 12 gauge (1.5 mm ²),
		3–30 psi (21–210 kPa, 0.2–2.1 bar)				25 ft (7.6 m); with clamp 1
		pressure range				
40	007 504	See manual 308–325	1	Use o	niy GENUINI	E GRACO PARTS AND ACCESSORIES.
18	237-534	VALVE, ball; 3/8 npt (m x f); sst	1	+ 74	ana narta ar	a included in Fluid Regulator Kit 225 244
19	111–928	TEE; 3/8 npt(f) run x	1	† <i>Th</i>	iese parts are	e included in Fluid Regulator Kit 235–344.
21+	188–089	3/8 npt(m) branch; sst	1 1			Dangar and Marning Jahala tage and cards
21† 22	169-971	NIPPLE; 3/8 npt x 3/8–18.6 sf; sst	1		epiacement L e available ai	Danger and Warning labels, tags and cards
22	109-971	FITTING, air line; 3/8 npt(m)	I	ar	e avaliable al	



Model 236-628, Series A

Includes items 1-26 and 34-42

Model 236-868, Series A

Includes items 1-26, 34-37, and 42

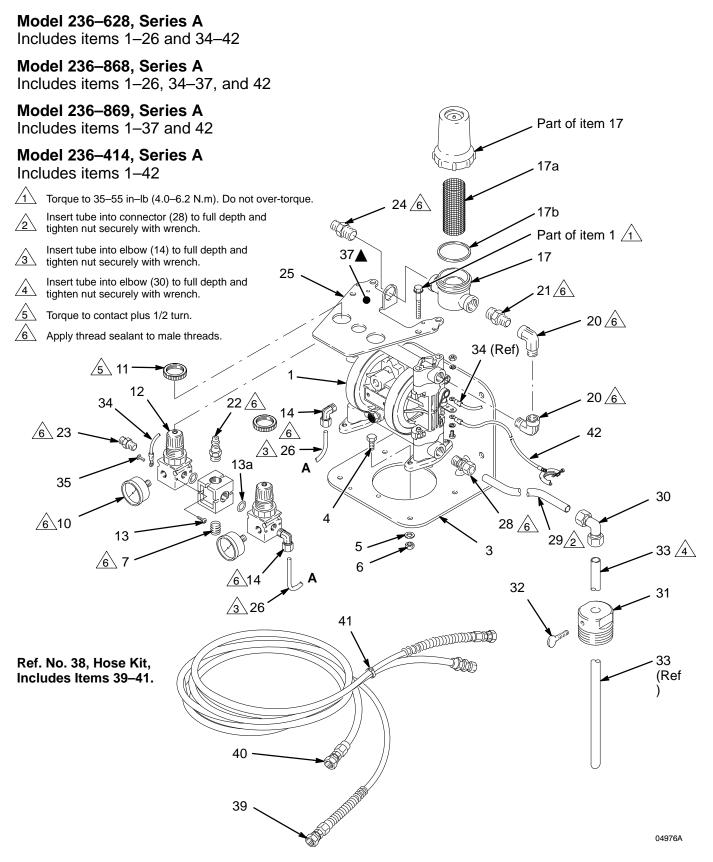
Model 236-869, Series A

Includes items 1-37 and 42

Model 236-414, Series A

Includes items 1–42

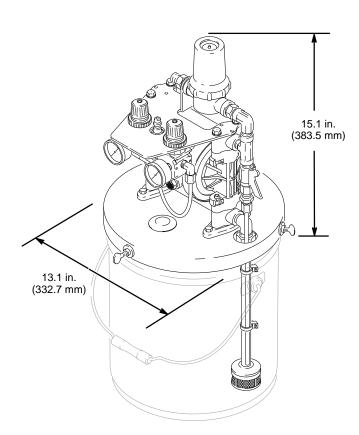
Ref No.	Part No.	Description Q	lty	Ref No.	Part No.	Description Qty
1	D31–331	PUMP, Husky 307; SST/Teflon®;	1	26	188–107	TUBE, inlet, air; nylon; 0.25" (6.3 mm) OD; 0.170" (4.3 mm) ID;
2	224–835	See 308–553 for parts WALL BRACKET KIT	I			7.5" (191 mm) long 1
2	224-000	Includes items 3–6	1	27	235–500	SUCTION KIT
3	188–285	. BRACKET, wall	1		200 000	Includes items 28–33
4	104–119	. SCREW, cap, hex hd; 1/4-20 unc-2a	a;	28	111–864	. CONNECTOR; acetal; 3/8 npt(m) x
		0.875" (22 mm) long; sst	4			0.5 in. (13 mm) tube 1
5	104–123	. LOCKWASHER; 1/4" size; sst	4	29	188–173	. TUBE, flexible; nylon;
6	102–025	. NUT, hex; 1/4–20; sst	4			0.5 in. (13 mm) OD;
7	101–754	PLUG, pipe; 3/8 npt	1			72 in. (1.83 m) long 1
10	108–190	GAUGE, air pressure;	_	30	111–863	. ELBOW, connector, reducing; acetal;
		0–100 psi (0–0.7 MPa, 0–7 bar)	2			0.625 in. (16 mm) OD tube x
11	110-209	NUT, regulator	2		400 404	0.5 in. (13 mm) OD tube 1
12	111–804	REGULATOR, air;		31	188–181	. PLUG, bung; acetal 1
		0–125 psi (0–0.85 MPa, 0–8.5 bar)	2	32	111–276	. THUMBSCREW; 5/16–18 unc; 1" (25.4 mm) long; sst 1
13	111–805	pressure range BLOCK, diverter	Ζ	33	188–171	. TUBE, suction; acetal;
15	111-005	Includes item 13a	1	55	100-171	0.625 in. (16 mm) OD;
13a	108–284	. O-RING; buna-N	3			38 in. (965 mm) long 1
14	111-807	ELBOW, tube fitting, 90°; acetal;	0	34	223–324	GROUND WIRE; 12" (300 mm);
• •		1/4 npt(m) x ferrule nut for		01	220 02 1	from gun air regulator to pump 1
		0.25" (6.3 mm) OD tube	2	35	108–290	SCREW, machine;
17	111–793	TANK, surge; 1/2 npt(f); nylon				8–32 x 1/4" (6.3 mm) 1
		Includes items 17a and 17b	1	37	189–220	LABEL, warning 1
17a	111–884	. SCREEN, 20 mesh; sst	1	38	236–410	HOSE KIT
17b	112–035	. GASKET; EPDM (standard part)	1			Includes items 39–41 1
	111–885	. GASKET; Viton®;		39	235–339	. HOSE, fluid; nylon; sst fittings;
		(alternative to EPDM; shipped loose)				3/8 npsm (fbe); 1/4" (6.3 mm) ID;
20	112-026	ELBOW, street; 3/8 npt (m x f); sst	2			26 ft (7.9 m) long 1
21	112–027	NIPPLE, reducing;		40	210–867	. HOSE, air; buna-N; cst fittings
	400.074	1/2 npt x 3/8 npt; sst	1			1/4 npsm (fbe); 5/16" (7.9 mm) ID;
22	169-971	FITTING, air line; 3/8 npt(m)	1		400 470	25 ft (7.6 m) long 1
23 24	188-077	NIPPLE; 1/4–18 npt x 1/4–18.6 sf; cst	1	41 42	102-478	. TIE, hose 13 GROUND WIRE; 12 gauge (1.5 mm ²),
24	188–091	NIPPLE; 1/2 npt x 3/8–18.6 sf; cst (Models 236–628 and 236–414 only)	1	42	222–011	25 ft (7.6 m); with clamp
	188–380	NIPPLE; 1/2 npt x 3/8–18.6 sf; sst	I			
	100-300	(Model 236–869 only)	1	Use o	nly GENUINI	E GRACO PARTS AND ACCESSORIES.
25	188–093	BRACKET, air regulator	1	🔺 Re	eplacement D	Danger and Warning labels, tags and cards
20	.00 000			ar	e available ai	t no cost.

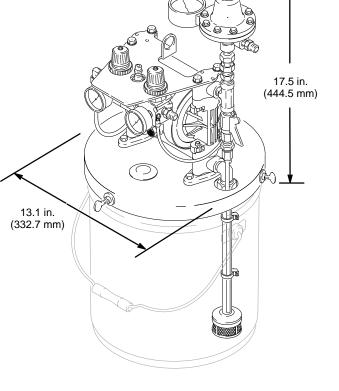


Dimensions

Model 236-412

Models 236–870 and 224–833

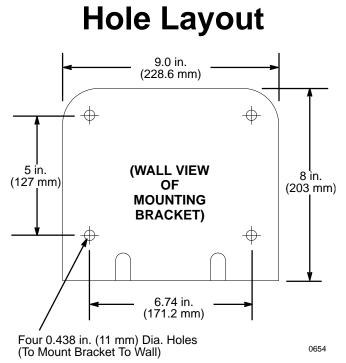




Pail is not included. Maximum pail outer diameter is 12.125 in. (308 mm).

04970

Wall Mounting



Maximum pail outer diameter is 12.125 in. (308 mm).

Pail is not included.

04971

Technical Data

Wetted Parts
Pump
Pail Cover (236–870, 224–833,
236–412) stainless steel
Fluid Hosesnylon
Hose Couplings stainless steel
Surge Tank (236–412, 236–414, 236–628, 236–868,
236–869) nylon, EPDM or Viton [®] , stainless steel
Fluid Regulator (236–870, 224–833) See 308–325
Fittingsacetal, stainless steel
Tubing
Suction Tube (236–414 and 236–869) acetal

Maximum Fluid Working Pressure . 100 psi (0.7 MPa, 7 bar) Air Pressure Operating Range
(104–700 kPa, 1–7 bar)
Pump Air Inlet Size 1/4 npt(f)
Pump Fluid Inlet and Outlet Size
* Sound Data
Pump sound level at 100 psi (0.7 MPa, 7 bar), full flow
Pump sound level at 70 psi (480 kPa, 4.8 bar),
1 gpm (3.8 lpm)
Operating Temperature Range: 40° to 150°F (4.4° to 65.5°C)
* Tested to CAGI-PNEUROP–1969
Taflan is a registered trademark of the Dy Bant Ca

Teflon® is a registered trademark of the Du Pont Co.

Manual Change Summary

This manual was revised to include the changes from PCN J.

The Graco Warranty and Disclaimers

Graco warrants all equipment listed in this manual which is 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 or 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.

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, gas engines, 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.

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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.

All written and visual data contained in this document reflects the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

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

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