

Fas-Vac Evacuation System

308154G

EN

For oils and heavier lubricants. For professional use only.

Not approved for use in European explosive atmosphere locations.

FOR LUBRICATION PRODUCTS ONLY

50 psi (0.35 MPa, 3.5 bar) Maximum Working Pressure

Model 224667

Basic Pump: Includes Husky 716 pump and mounting hardware

Model 224700, 16 Gallon System

Includes basic pump, dolly, wand storage kit, and 1/4" x 32" suction wand

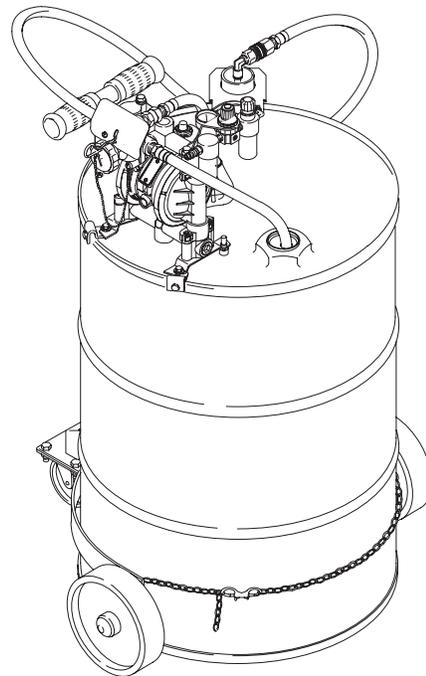
Model 224701, 55 Gallon System

Includes basic pump, 55 gallon drum truck, wand storage kit, and 1/2" x 32" suction wand.



Important Safety Instructions

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



Model 224701 shown
(does not include drum or
Filter-Regulator-Lubricator Kit)

Table of Contents

Warnings	2
Installation	4
Operation	8
Parts	9
Technical Data	12
Notes	13
Graco Standard Warranty	14

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



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. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- 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.



FIRE AND EXPLOSION HAZARD

When flammable fluids are present in the work area, such as gasoline and windshield wiper fluid, be aware that flammable fumes can ignite or explode. To help prevent fire and explosion:

- Use equipment only in well ventilated area.
- Eliminate all ignition sources, such as cigarettes and portable electric lamps.
- Keep work area free of debris, including rags and spilled or open containers of solvent and gasoline.
- Do not plug or unplug power cords or turn lights on or off when flammable fumes are present.
- Ground all equipment in the work area.
- Use only grounded hoses.
- **Stop operation immediately** if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.

 **WARNING****PRESSURIZED EQUIPMENT HAZARD**

Fluid from the gun, hose leaks, or ruptured components can splash fluid in the eyes or on the skin and can cause serious injury.

- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Do not point the dispensing valve at anyone or at any part of the body.
- Do not put your hands or fingers over the grease fitting coupler.
- Tighten all fluid connections before operating the equipment.
- Check the hoses, tubes, and couplings daily. Replace worn, damaged, or loose parts immediately.

**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 fluids 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.

Installation

Grounding



1. *Pump:* Connect a ground wire (A) to the pump. Connect to the other end to a true earth ground. Order Grounding Kit (Part No. 222084). (FIG. 1)

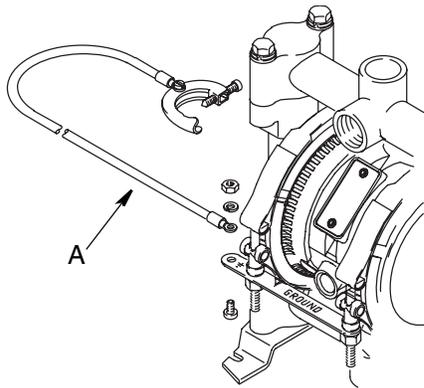


FIG. 1

2. *Air Compressor:* Follow the manufacturer's recommendations.
3. Use only metal or conductive containers.
4. *All solvent pails used when flushing,* according to 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.

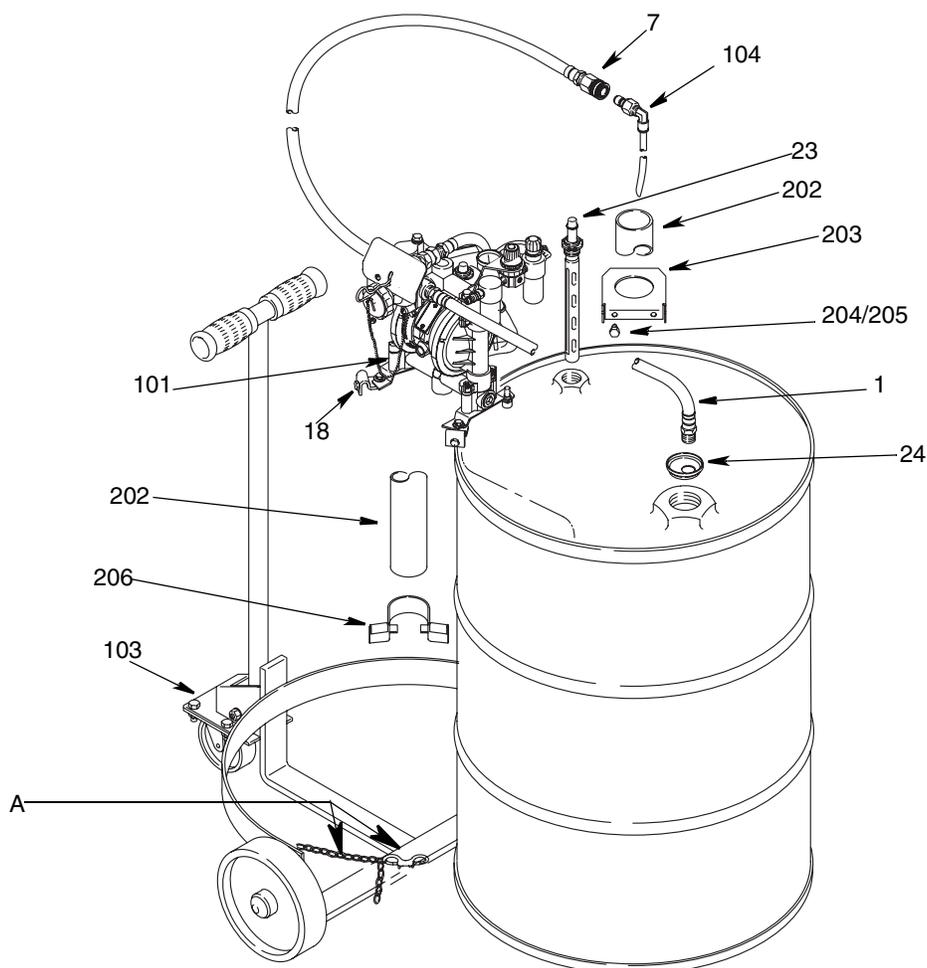


FIG. 2: 55 Gallon Unit

Typical Installation

1. Install the wheels on the dolly, or assemble the truck according to the instructions supplied with it.
2. Put the drum on the dolly or truck. The truck has a chain and clip (A) to secure the drum.
3. Position the pump between the bung hole and vent hole of the drum. (FIG. 2 and FIG. 3)
4. Loosen the top screw (14) of each pump clamp (18) and reposition the clamps as needed to fit the rim of the drum.
5. Tighten the screws (17) to secure the pump to the rim of the drum.
6. Install the wand storage tube (supplied). Place the holder (206) on the lip of the dolly or truck.
7. Place the tube (202) in the holder and slide the bracket (203) over the tube.
8. Align the bracket (203) to the holder (206) and secure the bracket to the rim of the drum.
9. Remove the drum's vent hole cover and install the vented fluid gauge (23).
10. Remove the drum's bung hole cover and install the plug (24).
11. Put the 50" drain hose (1) into the drum through the bung hole.
12. Connect a wand (104) to the quick coupler (7). Store the wand in the storage tube (202) until needed.

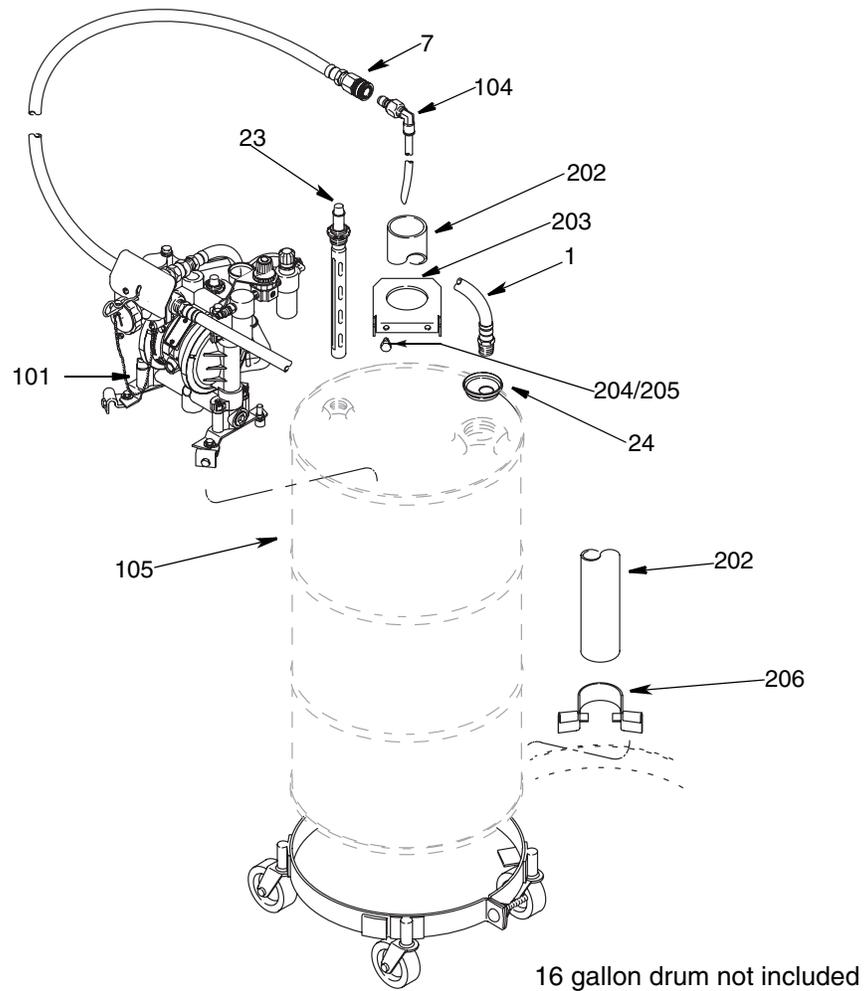


FIG. 3

Air Regulation

If you are using the optional air line Filter-Regulator-Lubricator (Kit 110149), see page 6 for installation instruction.

If you are providing your own regulation, you should install a quick disconnect coupler at the air hose and pump inlet or regulator.

Optional Fluid Filter for Evacuation Mode

When evacuating particle-contaminated lubricants from the 16 or 55 gallon drum to another container use a suction hose with filter (kit 223888) to prevent damage to the pump.

Adding an Optional Air Line Filer-Regulator-Lubricator (FRL) Kit

Proper conditioning of compressed air help prolong the life of your pump. In the FRL Kit, the filter removes harmful dirt and moisture from the compressed air, the regulator controls air to the pump and the lubricator provides automatic motor lubrication.

Graco FRL (Part No. 110149) should be mounted to the Fas-Vac with the Mounting Kit (Part No. 224759).

1. Remove the two manifold screws, flat washers, and lockwashers (A) from the pump.
2. Install the accessory bracket (B) so that its large hole faces up.
3. Install the screws and lockwashers (do not use the flat washers).
4. Remove the male quick disconnect fitting (20) from the pump and install it in the air filter inlet (J).
5. Hold the FRL with the air filter (H) to the left. Install the gauge (C) in the back port of the regulator (not the top) and turn it so the gauge faces up.
6. Install the plug (G) in the front port of the gauge.
7. Remove the lock ring (F) from the base of the air regulator knob.
8. Angle the FRL into the bracket so the gauge slides into the slot in the bracket.
9. Screw the lock ring (F) over the regulator knob to secure the assembly to the bracket.
10. Install a 90° nylon connector (E) to the FRL outlet on the side of the lubricator.
11. Install the other connector to the pump air restricter inlet (not visible in FIG. 4).
12. Tighten the connectors in a position that allows easy installation of the nylon tube (D). Install tube.

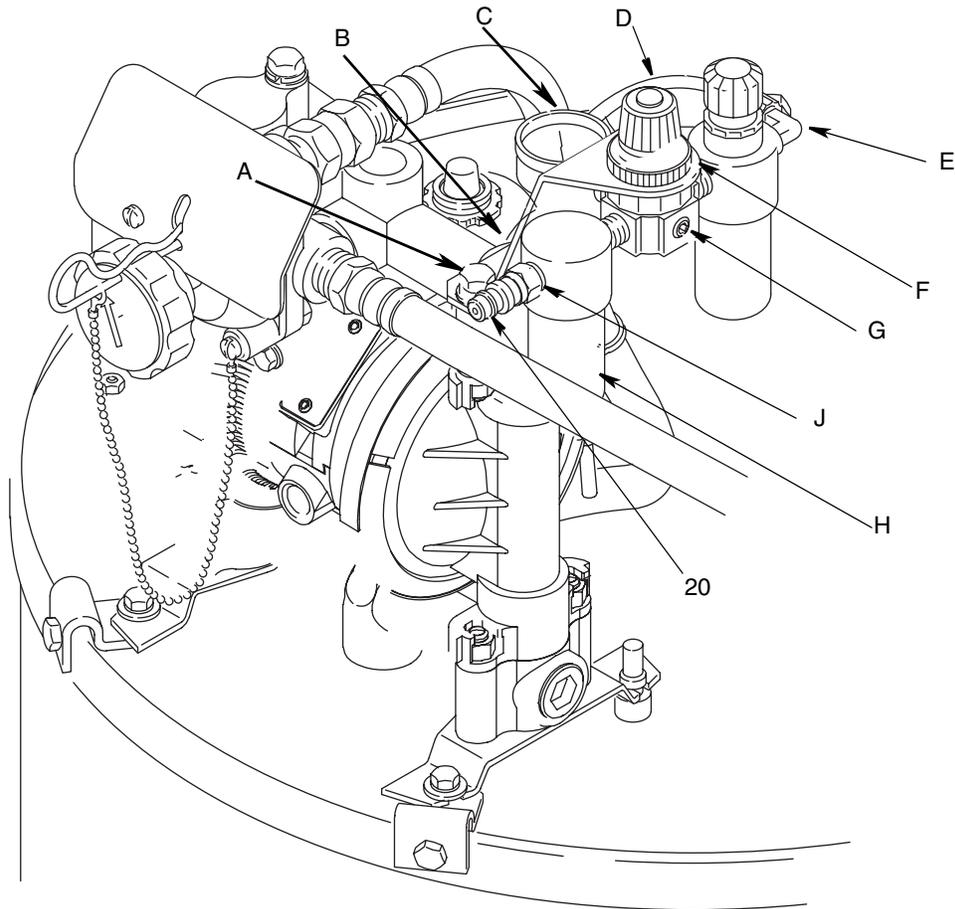


FIG. 4

Operation

Control Knob

The Fas-Vac system operates in two modes: evacuate lubricants from the crankcase or reservoir and collect the material in a 16 gallon or 55 gallon drum, and drain the stored lubricants from the drum to a larger container. The modes are selected with a lock-in-place control knob (A). See FIG. 5.

When the system is not in use, lock the knob in the evacuation mode.

Suction Wands

Experiment to determine which wand is best for your application. Typically, use the largest wand possible. A quick-disconnect coupler make it fast and easy to switch wands.

Fluid Gauge

The fluid gauge (23) indicates approximately how full the drum is to avoid over-filling it (FIG. 5). When it's red cap is even with the top, the drum will be 75% to 80% full.

Evacuation

1. Check the gauge level.

2. Be sure that the control knob (A) is in the EVACUATION position and the safety clip (8) locks it in place.
3. Connect the air supply hose to the pump air inlet (B). Operate the pump at 40-50 psi (2.72- 3.4 bar, 0.27-0.34 MPa) for the best results.
4. Insert the suction wand (104) in the crankcase or reservoir.
5. Disconnect the air to the pump when the evacuation is complete.

Draining the Drum

1. Remove the suction wand (104).
2. Attach the suction hose quick-disconnect coupler to the male coupler fitting of a waste oil tank, or discharge the material to an access opening.
3. Pull out the safety clip (8) and turn the control knob (A) to drain drum.
4. Connect the air supply hose to the pump.
5. When the draining is complete, disconnect the air to the pump, turn the valve knob (A) back to the evacuation position and install the safety clip (8).

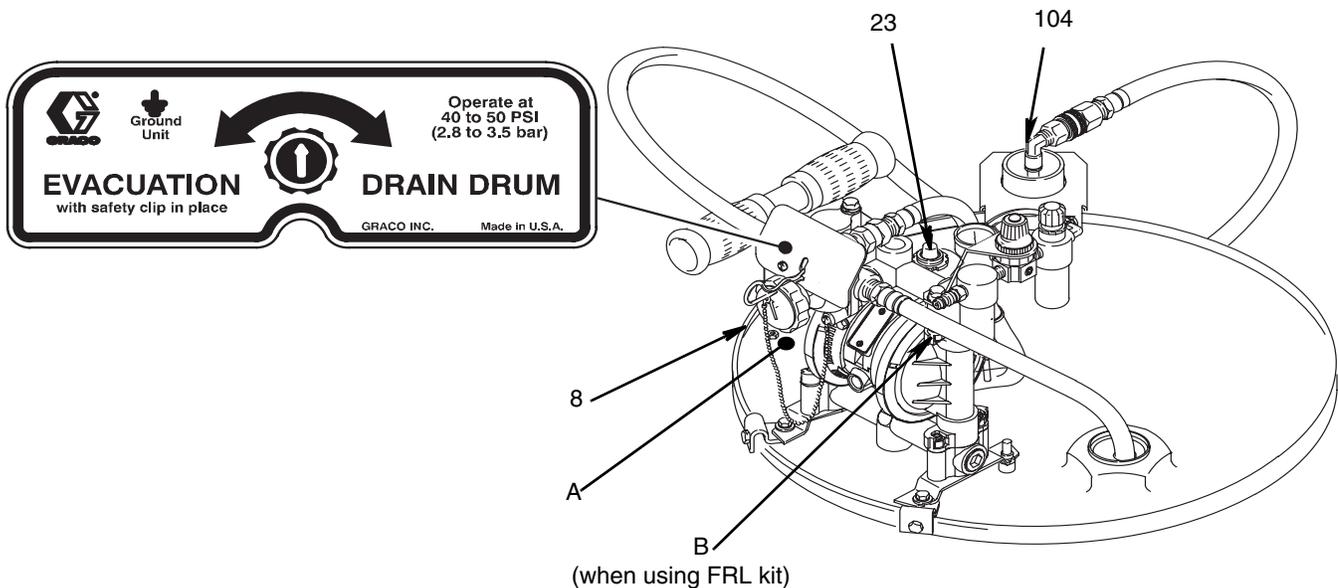


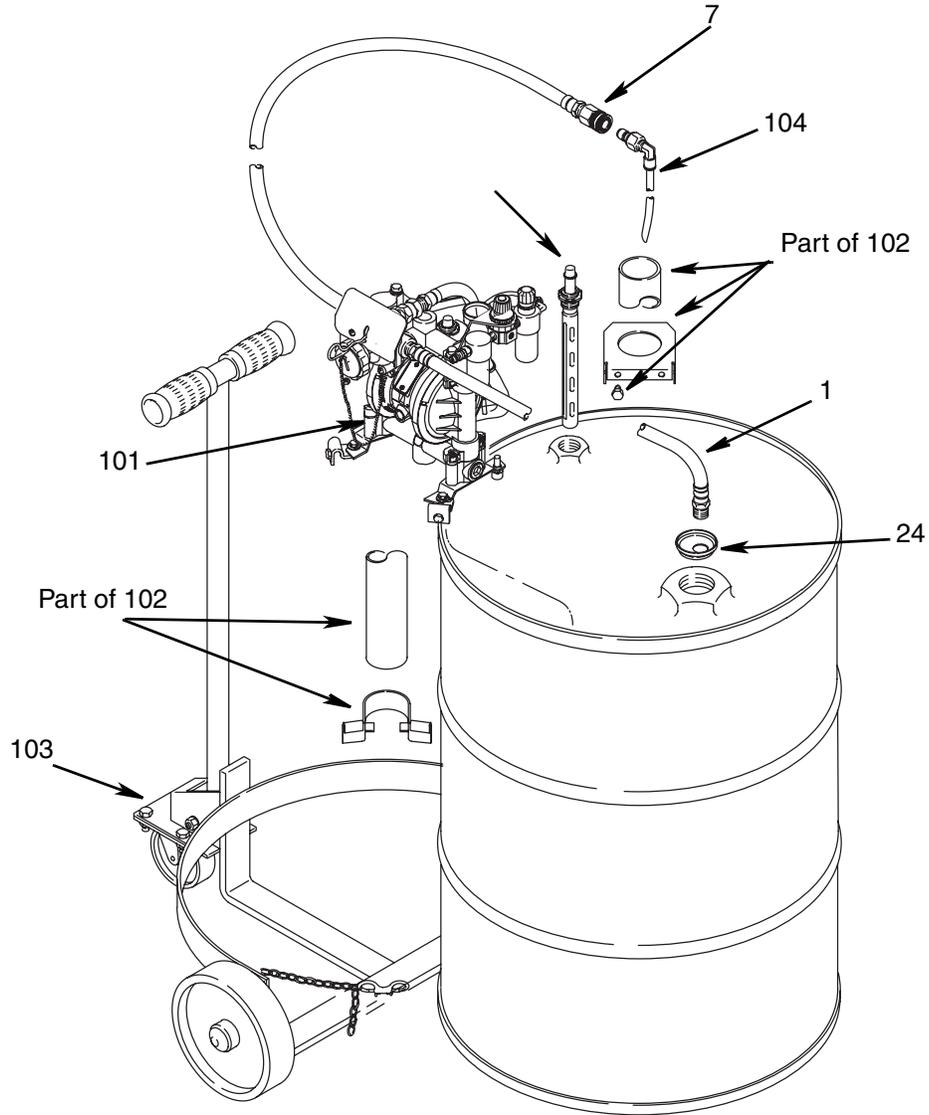
FIG. 5

Parts

Model 224701

55 Gallon System

Includes items 101 to 104



Part No./Description

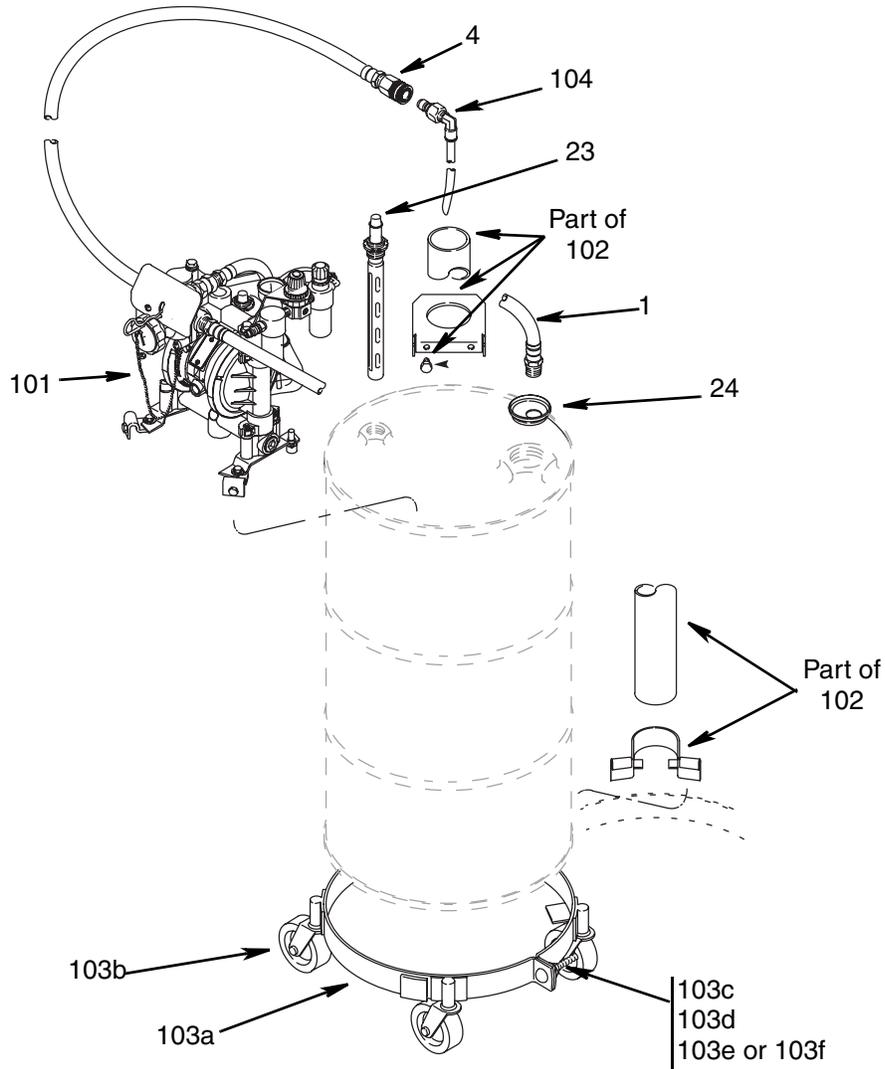
Ref.	Part	Description	Qty.
101	224667	PUMP	1
102	224666	WAND STORAGE KIT	1
103	111470	55 GALLON DRUM TRUCK	1
104	224702	WAND, 32" x 1/2" OD	

Model 224700
16 Gallon Fas-Vac System

Includes items 101 to 105

Model 224665
16 Gallon Deluxe Dolly

Includes items 103a to 103f

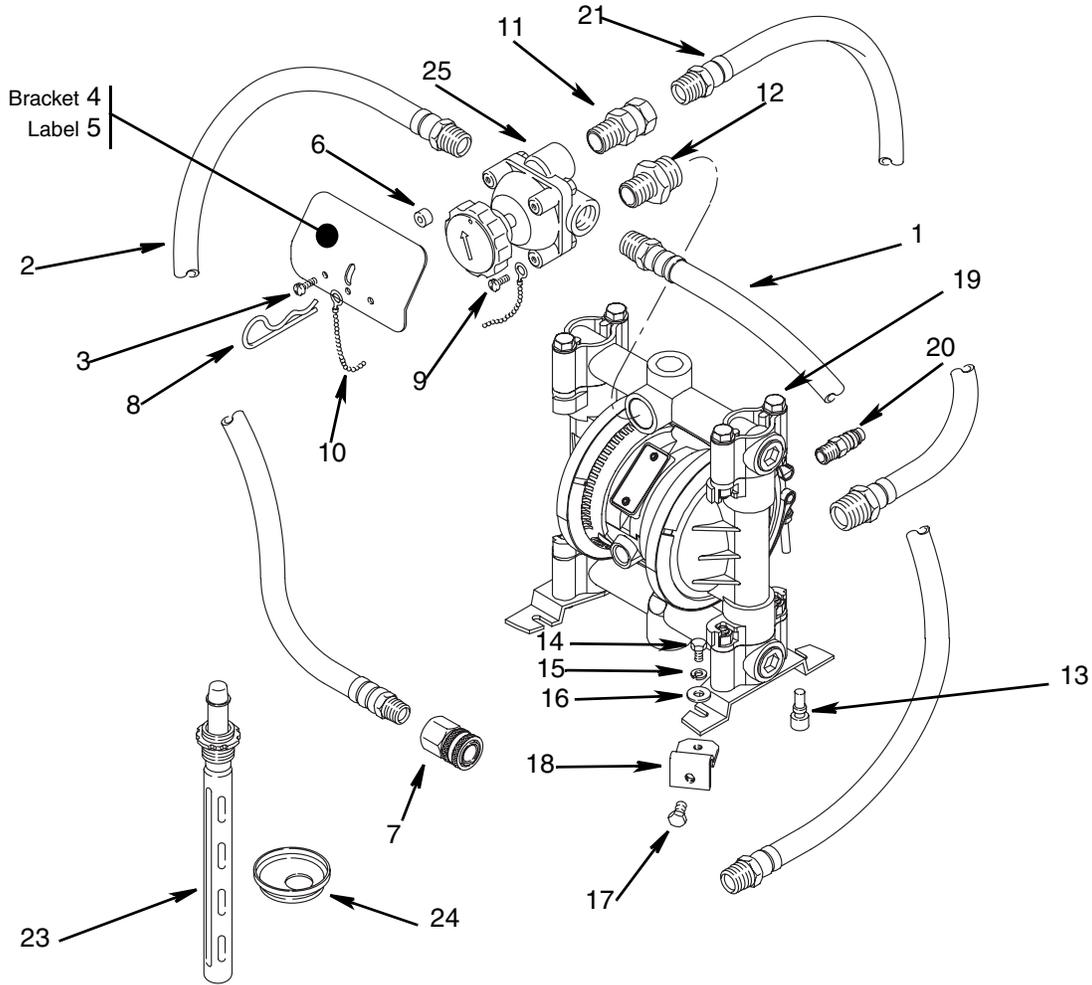


Part No./Description

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
101	224667	PUMP ASSEMBLY	1	103c	100307	NUT, full, hex, 3/8-16 unc 2b	1
102	224666	WAND STORAGE KIT	1	103d	100023	WASHER, flat, 3/8"	1
103	224665	DOLLY, 16 gallon deluxe	1	103e	102971	BOLT, carriage, 3/8-16 unc - 2a x 3"	1
103a	205419	CLAMP, dolly, 120 lb.	1	103f	101185	BOLT, carriage, 3/8-16 unc - 2a x 4"	1
103b	111472	CASTER, 3"	4	104	224669	WAND, 32" x 1/4" OD	1

NOTE: 16 gallon drum not included.

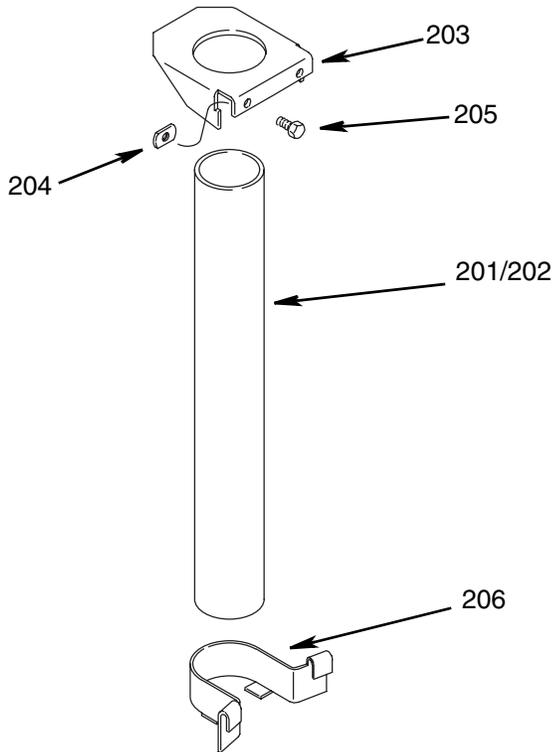
Model 224667 Basic Pump



Part No./Description

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
				14	100333	CAPSCREW, hex hd' 1/4-20 unc-2a x 5" long	2
1	111475	HOSE, cpld 1/2 npt, 50" (1.3 m) long	1	15	100016	LOCKWASHER, 1/2"	2
2	111473	HOSE, cpld 1/2-14 npt x 3/8-18 npt, 10 ft (3m) long	1	16	100527	WASHER, plain, 5/16"	2
3	108479	SCREW, mach, hex hd; 10-24 UNC-2a x 3/4"	2	17	100057	CAPSCREW, hex hd; 5/16-18 unc 2-a	2
4	187355	BRACKET	1	18	187354	BRACKET, mounting	2
5	187350	LABEL, instruction	1	19*	241906	HUSKY 716 PUMP	1
6	187366	SPACER	2	20	169970	FITTING, air line	1
7	801569	COUPLER, quick disconnect	1	21	111474	HOSE, cpld 1/2-14 npt x 3/4-14 npt, 20" (0,5 m) long	1
8	111465	CLIP, hitch pin	1	22	103473	STRAP, wire tie (not shown)	1
9	101577	SCREW, mach, hex hd, 10-24 unc-2a x 3/8"	1	23	111467	GAUGE, drum fill	1
10	111466	CHAIN, ball	1	24	183553	PLUG, bung	1
11	156684	UNION, adapter, 1/2 npt (m) x 1/2 npt(f) swivel	1	25	187359	4-WAY VALVE	1
12	157191	ADAPTER, 1/2-14 npt(m) x 3/4-14 npt(m)	1			*See manual 308573 for parts	
13	170709	FOOT	2				

Model 224666 Wand Storage Kit



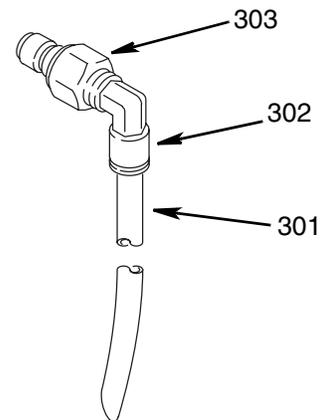
Suction Wands with 32" Tube

Includes items 301 to 303

Model 224669 is included with 16 gallon systems

Model 224702 is included with 55 gallon systems

		Ref. 301	Ref. 302	Ref. 303
MODEL	O.D.	Tube 32"	Elbow	Quick Coupler
224669	1/4"	187361	109027	801568
224702	1/2"	187363	109005	801568



Part No./Description

Ref.	Part	Description	Qty.
201	111471	CAP	1
202	187351	TUBE	1
203	187352	BRACKET, storage tube	1
204	187370	NUT	2
205	101344	CAPSCREW, hex hd; 5/16-18 UNC-2a	2
206	187353	HOLDER, storage tube	1

Technical Data

Maximum Air and Fluid Working Pressure.....	50psi (3.5 bar, 0.35 MPa)
System Wetted Parts.....	PVC, High Density Polyethylene, Brass, Nylon, Copper
Pump Assembly Dimensions.....	Depth: 13" (330 mm) Width: 9" (229 mm) Height: 13.5" (343 mm)
	Approximate Weight: 19 lb (8.5 kg)

NOTE: See manual 308573 for pump wetted parts.

Graco Standard Warranty

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

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.

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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.

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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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For the latest information about Graco products, visit www.graco.com.

TO PLACE AN ORDER, contact your Graco distributor or call to identify the nearest distributor.

Phone: 612-623-6928 or **Toll Free:** 1-800-533-9655, **Fax:** 612-378-3590

*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.*

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

Original instructions. This manual contains English. MM 308154

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