

STAINLESS STEEL, HEAVY-DUTY

Agitators

308371R

Pneumatic agitator for mixing and maintaining suspension of industrial coatings. For professional use only.

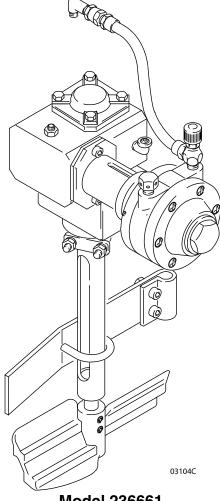
100 psi (0.7 MPa, 7 bar) Maximum Working Pressure

See page 2 for model information and approvals.



Important Safety Instructions

Read all warnings and instructions in this manual before using the equipment. Save these instructions.



Model 236661

Contents

Models	2
Warnings	3
Installation	5
Typical Installation	5
Grounding	5
Pressure Relief Procedure	6
Install an Agitator onto a Non-Agitated Tank	6
Install a Heavy-Duty Agitator	8
Operation 1	0
Service 1	1
Lubricate the Heavy-Duty Agitator1	1
Flush the Air Motor1	1
Clean the Shaft 1	2
Replace the Heavy-Duty Air Motor 1	2
Replace the Heavy-Duty Gear Reducer 1	2
Service the Agitator Shaft and Couplings 1	3

Parts
Stainless Steel, Heavy-Duty Agitators
Models 236661 (5 gallon), 236662 (10 gallon), 236663 (15 gallon)
Stainless Steel, Heavy-Duty Agitators Parts
List
Xtreme-Duty Agitator Drive Train (262858) 17
Xtreme-Duty Agitator Drive Train Parts List 18
Technical Specifications19
Air Consumption Chart
Graco Standard Warranty20

Models

Tank Size gallons (liters)	Heavy Duty Agitator	Agency Approvals			
5 (19)	236661				
10 (38)	236662	(C _Y) II 1/2 G T6			
15 (57)	236663	2575 LX ITS03ATEX11226			
For fluid viscosities above 800 cps (centipose)					

Agitator 262858 is a part of XM PFP assemblies. It is similar to 236663 but with a different blade. See the XM PFP Plural-Component Sprayer Setup-Operation manual for approval and installation information.

Related Manuals

Manuals in English	Description
308369	Stainless Steel 5-, 10-, and 15-Gallon Pressure Tanks Instruction manual
3A2776	XM PFP Plural-Component Sprayer Setup-Operation manual

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 or on warning labels, 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



FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, in **work area** can ignite or explode. Paint or solvent flowing through the equipment can cause static sparking. To help prevent fire and explosion:



- 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 sparking).
- Ground all equipment in the work area. See **Grounding** instructions.
- Never spray or flush solvent at high pressure.
- 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.
- Use only grounded hoses.



- Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail liners unless they
 are anti-static or conductive.
- 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.



PRESSURIZED EQUIPMENT HAZARD

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



- Follow the Pressure Relief Procedure when you stop spraying/dispensing and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.

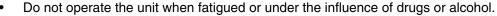


⚠ WARNING



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.





- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See in all equipment
 manuals. Read fluid and solvent manufacturer's warnings. For complete information about your
 material, request Safety Data Sheets (SDSs) from distributor or retailer.
- 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.



MOVING PARTS HAZARD

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

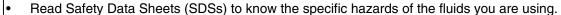


- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Equipment can start without warning. Before checking, moving, or servicing equipment, follow the **Pressure Relief Procedure** and disconnect all power sources.



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.







PERSONAL PROTECTIVE EQUIPMENT

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. Protective 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





To reduce the risk of fire and explosion, always maintain a minimum of 1 in. clearance inside the material drum between rotating agitator parts and any other objects, including the drum to prevent sparks from contact. This includes the edges of the drum as well as any item which may be inserted into the drum from another opening, such as feed pumps or suction tubes.

Typical Installation

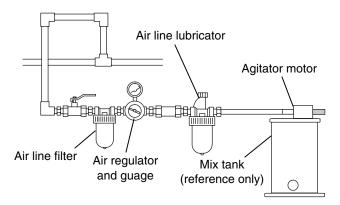


Fig. 1 Typical Installation

Grounding









The equipment must be grounded to reduce the risk of static sparking. Static sparking can cause fumes to ignite or explode. Grounding provides an escape wire for the electric current.

All electrically conductive objects or devices must be properly grounded. Check your local electrical code for detailed grounding instructions for your area and type of equipment.

To ground the agitator, connect one end of the ground wire (A) to the ground connector (B) on agitator mounting bracket (see Fig. 2). Connect the other end of the ground wire to a true earth ground.

For a ground wire and clamp, order part 237569.

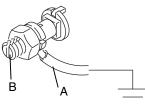


Fig. 2 Grounding

Pressure Relief Procedure



Follow the Pressure Relief Procedure whenever you see this symbol.











To reduce the risk of serious bodily injury, including splashing in the eyes or on the skin, or injury from moving parts, which can result if the tank pressure is not fully relieved, always follow this procedure before opening the pressure tank cover or fill port.

- 1. Shut off the air supply to the tank by closing the air inlet valve (A).
- 2. Turn the drain cock fitting (B) counterclockwise to open it.

NOTE: Wait until there is no air escaping through the fitting before removing the cover or opening the fill port.

Leave the drain cock fitting (B) open until the cover or filler cap have been reinstalled.

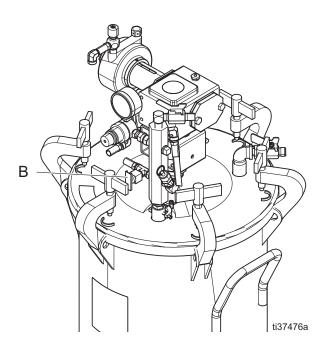


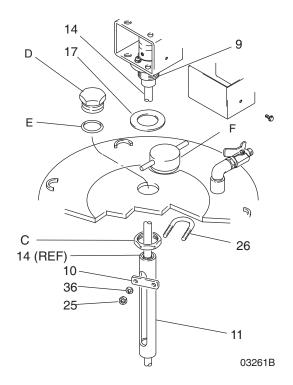
Fig. 3 5 Gallon Tank with Heavy-Duty Agitator

Install an Agitator onto a Non-Agitated Tank

- 1. Follow the **Pressure Relief Procedure**. Remove the tank cover from the tank.
- 2. Unscrew and remove the hex jam nut (C), plug (D), and O-ring (E) from the tank cover.
- Place the gasket (17) on top of the tank cover center hole. Insert the agitator drive shaft (14) through the center hole.

NOTE: Position the air motor so it faces away from the air regulator mounting as shown in Fig. 3.

- Install the jam nut (C) below the tank cover. Tighten the jam nut firmly to assure a seal between the gasket (17) and tank cover.
- 5. Install the shaft support (11) onto the shaft housing (9). Secure with U-bolt (26), clamp (10), lock washer (36) and nut (25).
- Tighten the U-bolt in a position leaving a 0.015 in. (0.006 mm) clearance gap between the thrust washer and the top of the shaft support. See **Parts** on page 15.



7. **10 and 15 gallon tanks:** place the lower bearing assembly (2) and (3) on the shaft.

5 gallon tank: clamp U-bolt directly to shaft support (11).

- 8. Slide the baffle (23) over the fluid tube (K) and position the baffle about 1/2 in. (13 mm) above the highest point on the agitator paddle (12).
- 9. Clamp the baffle in place with U-bolt (26), washer (36), and nut (25).
- 10. Align the agitator paddle (12) on the agitator shaft (14) as instructed for your model, as follows:

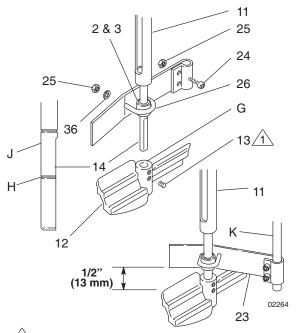
Models 236662 and 236663 (10 and 15 Gallon) Align the top of the paddle hub (G) with the mark (H) on the agitator shaft (14).

Model 236661 (5 Gallon)

If a 5 gallon pail is to be placed inside the pressure tank (5 gallon tank only), align the top of the paddle hub (G) with the upper mark (J) on the agitator shaft (14).

If a pail will not be placed inside the tank, align top of hub (G) with the lower mark (H) on the agitator shaft (14).

Apply low strength sealant to the two setscrews
 Firmly secure the paddle with the setscrews.



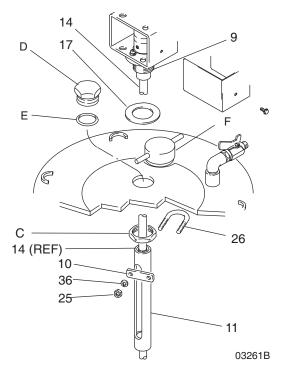
1 Apply low strength (cyanoacrylate) thread sealant.

- 12. Refer to Fig. 4, page 10. Remove the plug from the air inlet manifold (N).
- Remove the elbow (37) from the end of the air hose (21) and attach to the pressure tank air inlet manifold (N).
- 14. Connect the swivel end of the air hose (21) to the elbow (37).
- 15. Remove the gear reducer oil level plug (L) from the street elbow and check the oil level in the reducer housing. The oil should never be higher than the oil level plug. If necessary, drain or add oil until the proper oil level is attained.
- 16. Screw the oil level plug (L) back onto the street elbow (37).

NOTE: Special high temperature synthetic gear oil is required for the gear reducer. Use only Graco oil, part number 217374.

Install a Heavy-Duty Agitator

- Follow the Pressure Relief Procedure, page 6. Remove the pressure tank cover from the tank.
- Remove the upper U-bolt (26).



- 3. Loosen the two set screws (13) and remove the agitator paddle (12).
- 4. **On 10 and 15 gallon tanks:** remove the lower U-bolt (26), loosen screws (24) and slide the baffle (23) off the fluid tube (K).
- 5. Unscrew and remove the hex jam nut (C), gasket (17), and agitator from the tank cover.
- Place the gasket (17) on top of the tank cover center hole. Insert the agitator drive shaft (14) through the center hole.

NOTE: Position the air motor so it faces away from the air regulator mounting as shown in Fig. 3, page 6.

- Install the jam nut (C) below the tank cover. Tighten the jam nut firmly to assure a seal between the gasket (17) and tank cover.
- 8. Install the shaft support (11) onto the shaft housing (9). Secure with U-bolt (26), clamp (10), lock washer (36) and nut (25).

- Tighten the U-bolt in a position leaving a 0.015 in. (0.006 mm) clearance gap between the thrust washer and the top of the shaft support. Refer to Parts, page 15.
- 10. **10 and 15 gallon tanks:** place the lower bearing assembly (2) and (3) on the shaft.

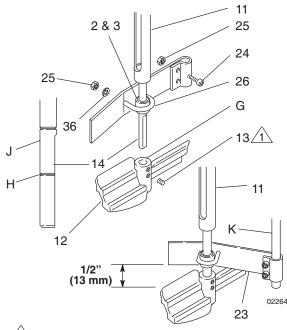
5 gallon tank: clamp U-bolt directly to shaft support (11).

- 11. Slide the baffle (23) over the fluid tube (K) and position the baffle about 1/2 in. (13 mm) above the highest point on the agitator paddle (12).
- 12. Clamp the baffle in place with U-bolt (26), washer (36), and nut (25).
- 13. Align the agitator paddle (12) on the agitator shaft(14) as instructed for your model:

Models 236662 and 236663 (10 and 15 Gallon) Align the top of the paddle hub (G) with the mark (H) on the agitator shaft (14).

Model 236661 (5 Gallon)

If a 5 gallon pail is to be placed inside the pressure tank (5 gallon tank only), align the top of the paddle hub (G) with the upper mark (J) on the agitator shaft (14). If a pail will not be placed inside the tank, align top of hub (G) with the lower mark (H) on the agitator shaft (14).



1 Apply low strength (cyanoacrylate) thread sealant.

- 14. Refer to Fig. 4, page 10. Connect the swivel end of the air hose (21) to the elbow (37).
- 15. Remove the gear reducer oil level plug (L) from the street elbow and check the oil level in the reducer housing. The oil should never be higher than the oil level plug. If necessary, drain or add oil until the proper oil level is attained. Screw the oil level plug back onto the street elbow.

NOTE: Special high temperature synthetic gear oil is required for the gear reducer. Use only Graco oil, part number 217374.

Operation









To reduce the risk of serious bodily injury, which can result if the tank pressure is not fully relieved, always follow the **Pressure Relief Procedure**, page 6, before opening the tank cover or fill port.









Over-pressurizing the tank or accessories could cause a part to rupture. To reduce the risk of serious injury, including fluid injection and splashing in the eyes or on the skin, or property damage, never exceed the maximum air and fluid working pressure of the lowest rated component in your system.

 Fill the pressure tank as explained in your Stainless Steel 5-, 10-, and 15-Gallon Pressure Tanks instruction manual.

- Refer to Fig. 4, page 6. Screw on the filler cap (F), or if the tank cover was removed, place the agitator and cover on the pressure tank and secure the cover with the c-clamp handles (M).
- 3. Close the tank air regulator(s) by turning the knob(s) counterclockwise. Turn on the air supply.
- 4. To start the agitator, slowly open the needle valve (20). Adjust the speed of the agitator with the needle valve to about 40 to 60 rpm.

NOTICE

Do not operate the agitator at a high speed for a long period of time. Excessive agitator speed can cause foaming of fluid (making fluid unusable), or vibration and increased wear on parts. Always agitate the fluid only enough to maintain even mixing.

5. To stop the agitator, close the needle valve (20).

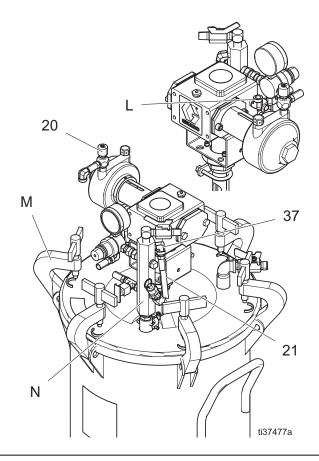


Fig. 4

Service











To reduce the risk of serious bodily injury, including cuts, amputation of fingers, and splashing in the eyes or on the skin, always follow the **Pressure Relief Procedure** (page 6), shut off the agitator, and disconnect the air line before checking or repairing the agitator.

If the unit requires more than installation of a service kit, it is usually quickest and easiest to send the unit to the Graco distributor for repair or replacement.

Lubricate the Heavy-Duty Agitator

NOTICE

To prevent air motor failure and possible damage to the agitator assembly, always keep the air motor properly lubricated.

Lubricate the Air Motor

Install an air line lubricator for automatic air motor lubrication. Set the lubricator feed rate at 1 drop of oil per minute for high speed or continuous duty usage. Do not overfeed oil or exhaust air may become contaminated. To order a 3/8 in. npt air line lubricator, order Part Number 214847.

If an air line lubricator is not installed, the air motor must be manually lubricated every 8 hours. Lubricate the agitator air motor by placing 10–20 drops of SAE #10 light oil in the motor's air inlet. Run the agitator for about 30 seconds.

Lubricate the Gear Reducer

Refer to Fig. 5, page 12. Remove the oil plug (T) and the oil level plug (L), drain the oil, and thoroughly flush the housing with light flushing oil. Refill with Graco oil (part number 217374) to the proper level.

Afterward, change the oil every six months or 2500 hours of operation (whichever occurs first) under normal

operating conditions. More frequent oil changes are needed under severe operating conditions or in atmospheres containing excessive moisture or abrasives. Contact your Graco distributor.

NOTE: No oil maintenance is required on models factory filled with Mobil Glygoyle 460 oil.

Flush the Air Motor







Do not use kerosene or other flammable solvents to flush the air motor. Flushing with flammable solvents could cause fire or explosion and result in serious injury or property damage.









Do not use kerosene or other flammable solvents to flush the air motor. Flushing with flammable solvents could cause fire or explosion and result in serious injury or property damage.

If the motor is sluggish or inefficient, flush it with non-flammable solvent in a well ventilated area.

The recommended solvent for air motors and lubricated pumps is Gast Flushing Solvent (Part Number AH255 or AH255A) or Inhibisol Safety Solvent.

- 1. Disconnect the air line and muffler
- 2. Add several teaspoons of solvent or spray the solvent directly into the motor.
- Rotate the shaft by hand in both directions for a few minutes.
- Reconnect the air line, and slowly increase the air pressure until there is no trace of solvent in the exhaust air.
- Re-lubricate the motor with a squirt of light-weight oil in the chamber.

Air Motor Repair

If the vanes need replacing, or if foreign material is present in the motor chamber, an experienced mechanic may remove the end plate opposite the drive shaft end. Do not pry with a screwdriver. It will dent the surface of the plate and body, causing leaks. Use a puller tool, which will remove the end plate while maintaining the position of the shaft.

New vanes should have the edges with cut corners (or the notched edges, if the vanes are reversible) pointing toward the bottom of the vane slot.

Clean the Shaft

Every week, clean any dried fluid from around the bearing (38) area of the shaft (14).

Replace the Heavy-Duty Air Motor

Remove the Heavy-Duty Air Motor

- 1. Disconnect the air hose (21).
- 2. Loosen the two setscrews (32) on the collar (2) and remove the air motor (1).

Install the Heavy-Duty Air Motor

- Place one-half of the coupling (3a) on the air motor shaft (S), flush with the end of the shaft. Tighten the coupling setscrew against the flat on the shaft.
- 2. Install the load cushion (P) on the gear reducer coupling half. Slide the clamp (2) onto the collar (4).
- Align the two coupling halves (3a), and push the air motor hub into the collar (4) until it bottoms out, then back it out 0.015 in. (0.38 mm). Make sure the air motor inlet and outlet face up.
- Apply Loctite[™] Number 222 to the two clamp setscrews (32). Align the setscrews to one side of the slots on the collar (4), and tighten them.
- 5. Apply pipe thread sealant to the inlet (20) and outlet (22) fittings, and install them in the air motor.

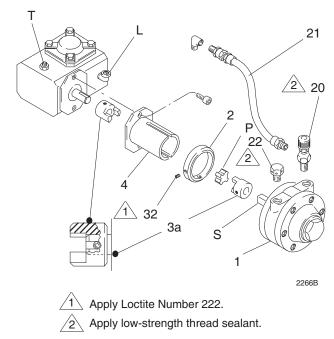


Fig. 5

Replace the Heavy-Duty Gear Reducer

Do not attempt to repair the gear reducer (5) yourself. Contact your Graco distributor.

Refer to Fig. 6, page 14.

- 1. When replacing the gear reducer, turn it upside down and remove the cap screws (33) and washers (40) from the bottom of the old gear reducer.
- Remove the top coupling half (19a) from the old gear reducer, and install the coupling half on the new gear reducer. Wipe the screw holes clean with a rag.
- 3. Apply Loctite Number 271, or equivalent, to the four cap screws (33).
- 4. Install the cap screws (33) with the washers (40) through the bracket (6) and into the gear reducer. Make sure the three hole pattern on the bottom of the bracket (6) is orientated in relation to the gear reducer (5) as shown in Fig. 6, page 14.
- 5. Run the agitator to let the bracket (6) center itself. Torque the screws to 160 in-lb (18 N•m).
- 6. Leave the gear reducer upside down for 30 minutes to allow the Loctite to cure.

7. Set the coupling as instructed under **Set the Agitator Shaft Coupling**, on page 13.

NOTE: Do not use the four screws supplied with the replacement gear reducer to secure it; those screws will not properly secure the gear reducer. Use the cap screws and washers (33 and 40) removed from the old gear reducer. Be careful not to spill any oil from the gear reducer.

Service the Agitator Shaft and Couplings

Set the Agitator Shaft Coupling

- With the agitator shaft (14) pushed up against the washer (15a), secure the lower portion of the coupling half (19b) to the shaft by tightening the coupling setscrew against the flat on the shaft. Leave about a 0.015 in. gap between the coupling half and washer (15b).
- 2. Secure the upper coupling half (19a) to the gear reducer shaft by tightening the coupling setscrew into the keyway. Leave about a 0.015 in. gap between each of the coupling halves (19a, 19b) and the load cushion (R).

Replace the Agitator Shaft

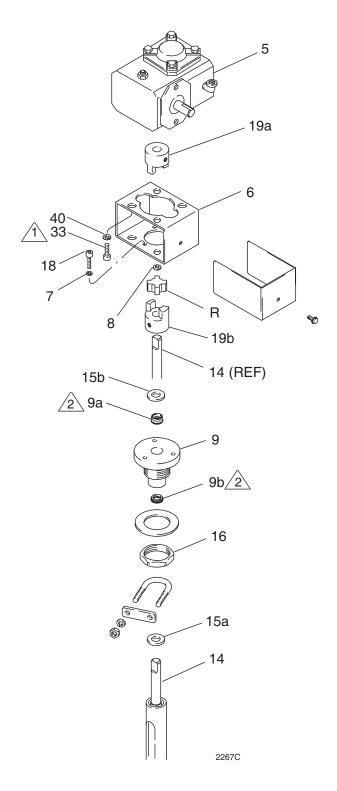
- 1. Remove the agitator paddle. Remove the setscrew from the lower coupling (19b). Pull out the agitator shaft (14) and install the new shaft.
- 2. Replace the agitator paddle.
- With the agitator shaft (14) pushed up against the washer (15a), secure the lower portion of the coupling half (19b) to the shaft by tightening the coupling setscrew against the flat on the shaft. Leave about a 0.015 in. gap between the coupling half and washer (15b).

Replace the Coupling

- 1. Remove the three cap screws (18), washers (7) and spacers (8) from the mounting bracket (6).
- 2. Lift the air motor and gearbox off the tank cover. Remove the two coupling halves (19a, 19b) from the shaft ends.
- 3. Install the new coupling halves on the shaft ends. Replace the air motor/bracket assembly and the three cap screws (18), washers (7) and spacers (8) to fasten the mounting bracket.

Replace the Shaft Seals

- 1. Remove the three cap screws (18), washers (7), and spacers (8) from mounting bracket (6), and move the air motor assembly.
- 2. With air motor assembly removed, remove the setscrew from the lower coupling half (19b). Pull out the agitator shaft (14).
- Remove the hex nut (16) and remove the shaft housing (9). Remove the seals (9a, 9b) from the shaft housing, and install the new seals.
- Reinstall the shaft housing and shaft. Use installation steps listed in Set the Agitator Shaft Coupling, page 13.



1

Apply Loctite Number 271. Torque to 160 in-lb (18 N·m)

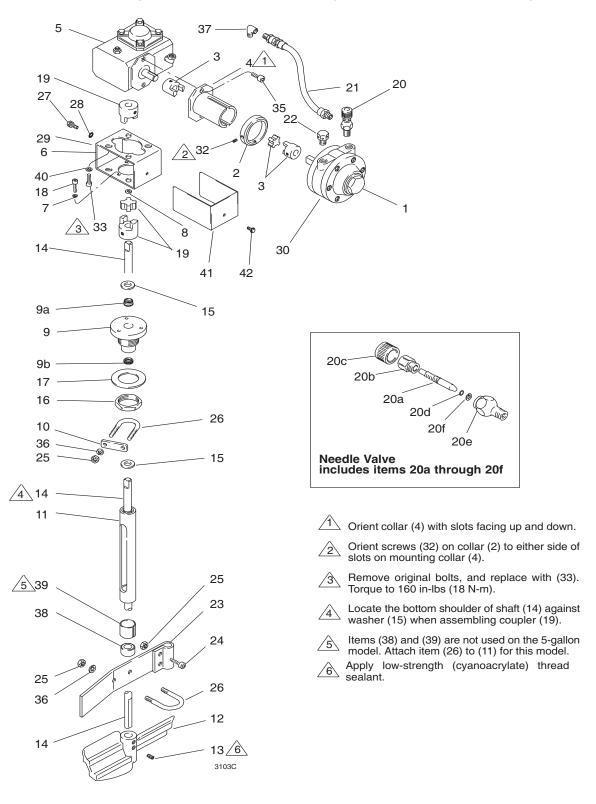
<u>/2\</u>

Install seals with open spring-loaded side toward tank

Fig. 6

Parts

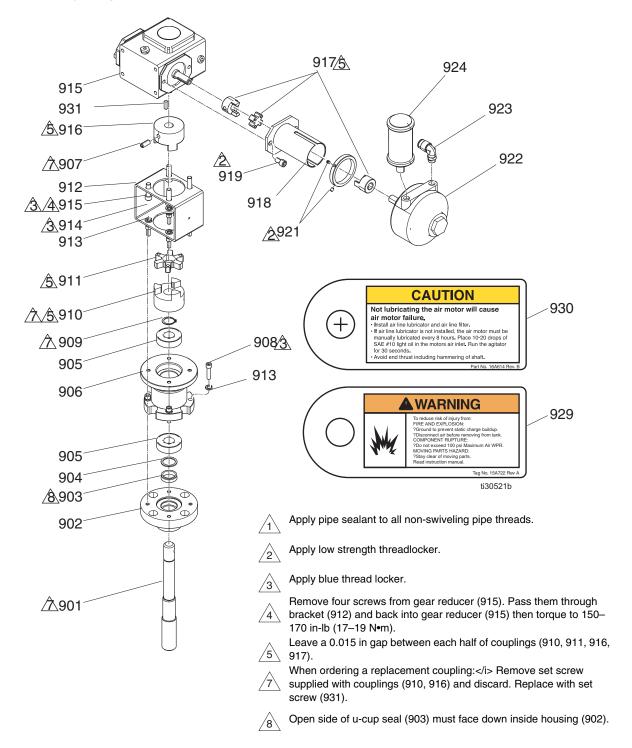
Stainless Steel, Heavy-Duty Agitators Models 236661 (5 gallon), 236662 (10 gallon), 236663 (15 gallon)



Stainless Steel, Heavy-Duty Agitators Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1	162425	MOTOR, air	1	20d	157628	·O-RING; buna-N	1
2	181849		1	20e	165722	·BODY, valve	1
3	100828		1	20f	166531	·WASHER, nylon	1
4	220416	·	1	21	160023	HOSE, coupled; 400 psi (2.8 MPa,	1
		items 4a & 4b				28 bar) maximum working	
4a	181848	SLEEVE, mounting, air motor	1			pressure	
4b	170751	PLATE, mounting	1	22	156969	MUFFLER, exhaust	1
5	181794	REDUCER, gear	1	23	171989	, G ,	1
6	181749	BRACKET, mounting	1	24	112222	SCREW, cap, socket head; 1/4-20	2
7	100020	WASHER, lock	1			x 1 in., (25 mm) sst	^
8	108462	SPACER	1	25	112223	NUT, hex, regular; 1/4–20, (19	6
9	236092	HOUSING, shaft; Includes	1	00	440070	mm) sst	2
		replaceable items 9a & 9b		26		U-BOLT, clamp; sst	1
9	103553	· SEAL, shaft	1	27		SCREW, grounding	1
9	104431	· SEAL, shaft	1	28		WASHER, lock, internal	1
10	112533	CLAMP, plate, sst	1	29▲		LABEL, grounding symbol	1
11	210576	SUPPORT, shaft; Includes	1	30▲		LABEL, warning	-
		replaceable item 38		32	101118	SCREW, set, sch; 10–24 x 0.25 in.	2
12*	236098	PADDLE, agitator; plastic	1	22	110000	(6 mm) long	4
13	131497		5 2	33	110298	SCREW, cap, sch; 1/4–20 x 0.875 in. (22 mm) long	7
		in. (13 mm)		35	116940	SCREW, cap; 5/16–18 x 1/2 in. (13	2
14	188886		1	33	110940	mm) long	_
		(18.9 liters); sst	1	36	104123	WASHER, lock, sst	4
14	188887		1	37	112307		
4.4	100000	size (37.8 liters); sst	<u>,</u> 1	O,	112007	1/8–27 npt(m)	
14	188888	SHAFT, agitator, 31 in., 15 gal size (56.7 liters); sst	, '	38	171970	,	1
15	104373	WASHER, thrust; 1/2 in. ID x 1 in.	1			Models 236662 and 236663 only	
15	104373	OD	•	39	187324	HOUSING, bearing; Included with	1
16	188784	NUT, jam, hex; 1–1/2 in.–12;	2			Models 236662 and 236663 only;	
10	100704	stainless steel				sst	
17	196309		1	40	170772	WASHER, flat; 0.26 x 0.69 dia; sst	4
18	102598	SCREW, cap, socket head; 10–32	3	41	194701	GUARD	1
. •	.0200	x 0.5 in. (13 mm)	-	42	100078	SCREW, #8-32x3/8 in.	1
19	108463	COUPLING, flexible	1				
20		VALVE, needle; Includes items	1			el agitator paddle 186517, 304 stain	
		20a to 20f				onstruction, replaces plastic agitator	
20a	166529	NEEDLE, valve	1	•	le 236098		
20b	166532	NUT, packing	1			nt safety labels, tags, and cards are	
20c	164698	KNOB, packing	1	availa	able at no	COSI.	

Xtreme-Duty Agitator Drive Train (262858)



Xtreme-Duty Agitator Drive Train Parts List

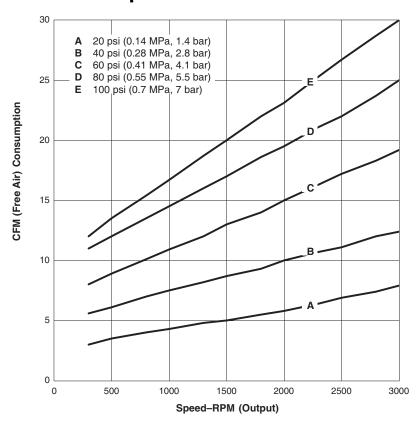
Ref.	Part	Description	Qty.
901	16P919	SHAFT, agitator, upper	1
902	16U219	HOUSING, agitator	1
903		SEAL, PTFE	1
904		SPACER, shaft, agitator	1
905	122774	BEARING, 3/4 ID x 1-3/4 OD	2
906	16P920	HOUSING, bearing, agitator	1
907		SCREW, SHCS, 5/16-18 x 0.75	2
908	112222	SCREW, socket cap head	4
909		RING, retaining, external, 0.75	1
910	122761	HOUSING, alignment, hub	1
911	112760	COUPLING, alignment, disk, TPE	1
912	16P922	BRACKET, adapter, agitator	1
913	C19209	WASHER, lock	8
914	101682	SCREW, socket cap head	4
915	181794	GEAR, reducer	1
916	16P923	COUPLER, adapter	1
917	100828	COUPLING, flexible	1
918	16T063	COLLAR, mounting	1
919	116940	SCREW, SHCS, 5/16-18	2
920	181849	COLLAR	1
921	101118	SCREW	2
922	111310	MOTOR, air, rotary	1
923	115841	FITTING, elbow	1
924	129069	MUFFLER, air, exhaust	1
929▲	15A722	LABEL, warning	1
930▲	16A614	LABEL, caution	1
931	120376	KEY, square, 0.188 x 0.62	1

▲ Replacement safety labels, tags, and cards are available at no cost.

Technical Specifications

Stainless Steel, Heavy-Duty Agitators					
	US	Metric			
Air motor	Air dri	Air driven, gear reduced, 1/2 HP (373 W)			
Maximum air pressure	100 psi	0.7 MPa, 7 bar			
Gear ratio	Reduced	Reduced 20:1; shaft rpm is 1/20 of air motor rpm			
Weight	21.0 lb	9.5 kg			
Wetted Parts	304 and 316 sta	304 and 316 stainless steel, PTFE,			
Welled Falls	Zytel, and bronz	Zytel, and bronze			
Noise (dBa)					
Sound pressure					
At no load at maximum rpm		83.4 dB(A)			
Under load at 50 rpm		64.0 dB(A)			
Sound power					
At no load at maximum rpm		96.6 dB(A)			
Under load at 50 rpm		77.2 dB(A)			
Sound pressure measured 3 feet (1 meter) from equipment.					
Sound power measured per CAGI-PNEUROP, 1971.					
Notes					
All trademarks or registered trademarks a	re the property of the	eir respective owners.			

Air Consumption Chart



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.

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 Information

For the latest information about Graco products, visit www.graco.com. For patent information, see www.graco.com/patents.

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

Phone: 612-623-6921 or Toll Free: 1-800-328-0211. Fax: 612-378-3505

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.

Original instructions. This manual contains English. MM 308371

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

GRACO INC. AND SUBSIDIARIES • P.O. BOX 1441 • MINNEAPOLIS MN 55440-1441 • USA Copyright 2019, Graco Inc. All Graco manufacturing locations are registered to ISO 9001.