

Displacement Pump

311485E

- Use with Architectural Coatings, Paints, Roof Coatings and Below Grade Coatings -

4000 psi (27.6 MPa, 275.8 bar) Maximum Working Pressure



Important Safety Instructions. Read all warnings and instructions in this manual. Save these instructions.

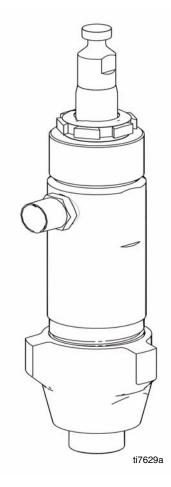
Model: 287834

Related Manuals









PROVEN QUALITY. LEADING TECHNOLOGY.

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Warning

The following are general warning related to the safe setup, use, grounding, maintenance and repair of this equipment. Additional, more specific warnings may be found throughout the body of this manual where applicable. Symbols appearing in the body of the manual refer to these general warnings. When these symbols appear throughout the manual, refer back to these pages for a description of the specific hazard.

	 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 manufacturer's warnings. For complete information about your material, request MSDS forms from distributor or retailer. Check equipment daily. Repair or replace worn or damaged parts immediately with genuine Manufacturer's replacement parts only. Do not alter or modify equipment. Use equipment only for its intended purpose. Call your distributor for information. Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not kink or over bend hoses or use hoses to pull equipment. Keep children and animals away from work area. Comply with all applicable safety regulations. 						
17	 MOVING PARTS HAZARD Moving parts can pinch or amputate fingers and other body parts. Keep clear of moving parts. Do not operate equipment with protective guards or covers removed. Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure in this manual. Disconnect power or air supply. 						

Operation

Pressure Relief Procedure





System pressure must be manually relieved to prevent it from starting or spraying accidentally. Fluid under high pressure can be injected into the skin and cause serious injury. To reduce risk of injury from injection, follow this procedure whenever you are instructed to relieve pressure, stop spraying, service equipment or install or clean spray tip. Read warnings, page 2.

1 Set pump valve OFF. Turn engine OFF.



2 Turn pressure to lowest setting. Trigger gun into pail to relieve pressure.



3 Open prime valve (vertical).

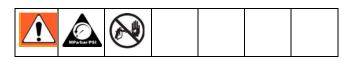


If you suspect that the spray tip or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, VERY SLOWLY, loosen tip guard retaining nut or hose end coupling to relieve pressure gradually, then loosen completely. Then clean tip and hose.

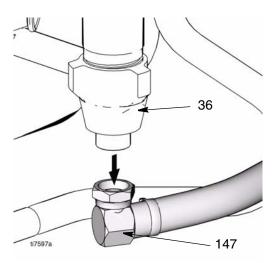
Service

Removal

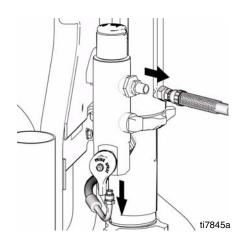
1. Flush pump (36). Stop pump on down stroke if possible.



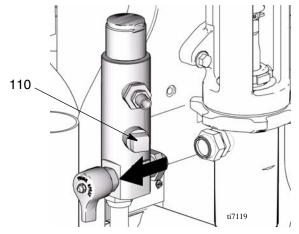
- 2. Relieve pressure, page 3.
- 3. Remove suction set (147) from pump (36).



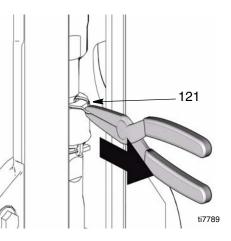
4. Remove paint and drain lines from filter housing.



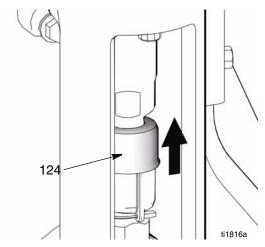
5. Using a wrench, loosen filter housing fitting (110) and remove housing from pump.



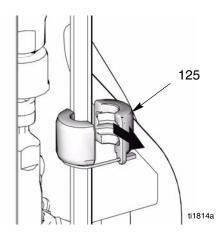
6. Using a pliers, remove clip (121).



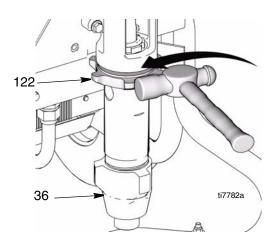
7. Slide cover up (124).



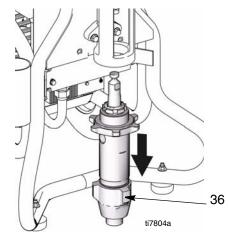
8. Separate coupling (125) and remove.



9. Using a hammer, loosen jam nut (122). Unscrew pump (36) from power head.

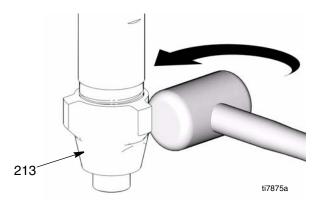


10. Remove pump (36).

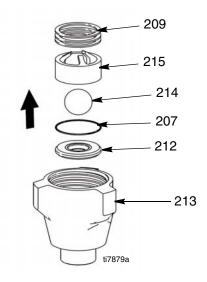


Ball Adjustment

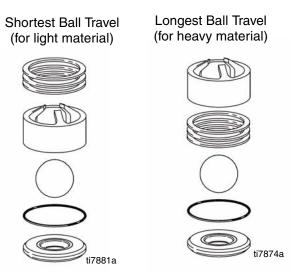
1. Using a hammer, loosen and remove intake valve (213).



2. Disassemble. Clean all parts and inspect o-rings (207).

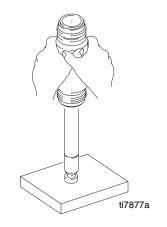


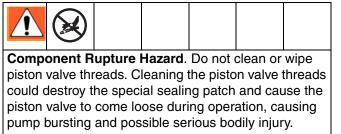
3. Select proper ball travel for material sprayed. Reassemble as shown.



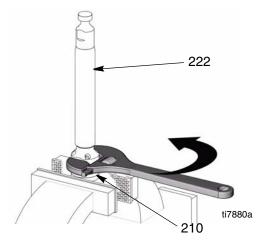
Piston Rod Disassembly

- 1. Tap piston rod out of cylinder with a hammer or flip over and tap piston rod out against bench. NOTE: Sleeve may come out of cylinder with piston rod.
- 2. If piston rod and sleeve did not separate, invert piston rod (222) and sleeve (220) and pound on hard surface until piston rod comes out of sleeve.

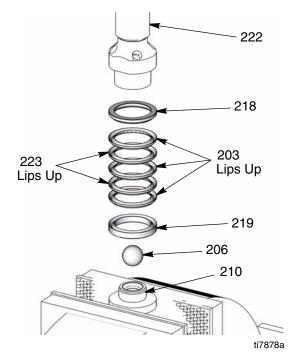




3. Hold piston valve (210) securely in vice. Using a wrench, separate piston valve (210) from rod (222).



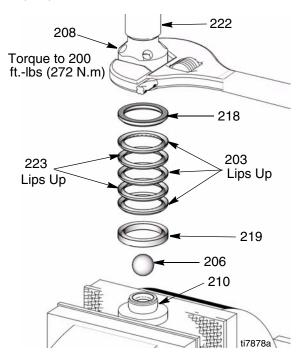
4. Remove parts. Note orientation of parts for reassembly.



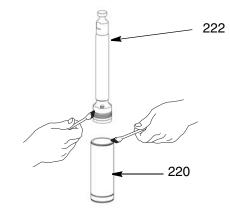
5. Clean all parts with a compatible solvent and inspect them for wear or damage. Replace any worn parts.

Reassembly

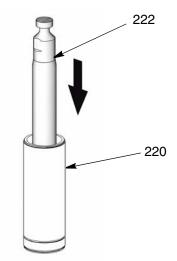
- 1. Soak all leather packings (237) in SAE 30W oil for at least 1 hour prior to assembly.
- 2. Alternately stack V-Packings (203) and V-Packings (223).



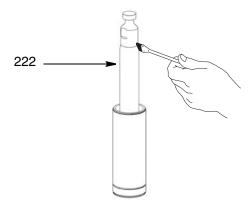
3. Grease piston rod (222) packings and top edge of sleeve (220).



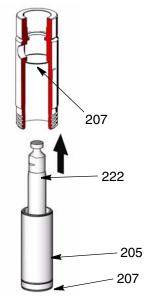
4. Carefully slide piston rod assembly (222) into top edge of sleeve (220).



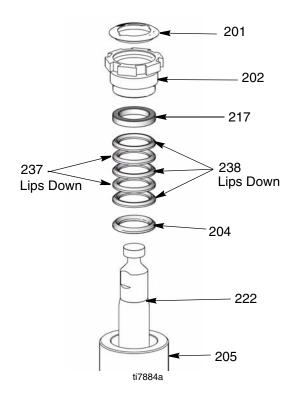
5. Grease top inch or two of piston rod (222) that will go through he cylinder throat packings.



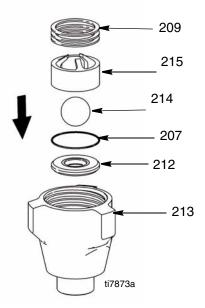
6. Grease o-ring (207) and place on sleeve. Slide one o-ring (207) inside cylinder (205). Slide sleeve/piston rod assembly (222) into bottom of cylinder.



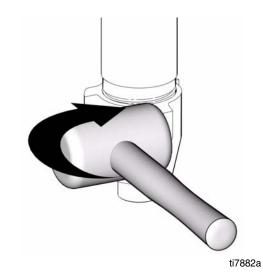
- 7. Install male gland (204) in cylinder (205).
- 8. Alternately stack UHMWPE packings (238) and leather packings (237) (note orientation).
- 9. Place female gland (217) in top of cylinder. Loosely install packing nut (202) and plug (201).



10. Reassemble intake valve (213) as shown.

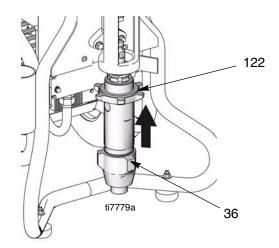


 Place intake valve (213) assembly in vice. Install cylinder (205) assembly to intake valve. Torque to 350 ft.-lbs (475 N•m).

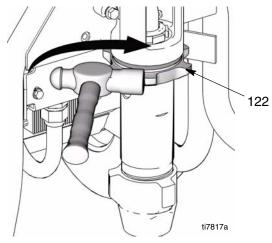


Torque packing nut (202) down to 50 ft.-lbs (68 N•m).

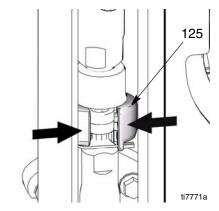
 Screw jam nut (122) to bottom of pump threads (36). Screw pump completely up into power head.



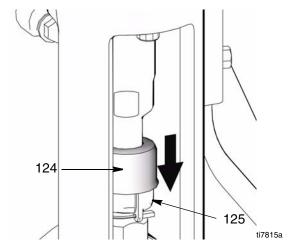
 Hand tighten jam nut (122). Then tighten securely 1/8 to 1/4 turn with hammer or torque to 330 ft-lb (447.4 N•m).



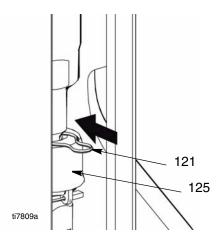
15. Install coupling (125) around pump rod.



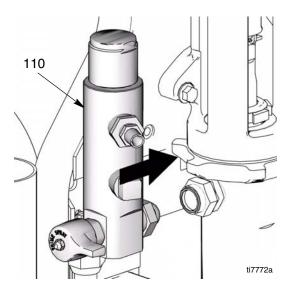
16. Slide cover (124) over coupling (125).



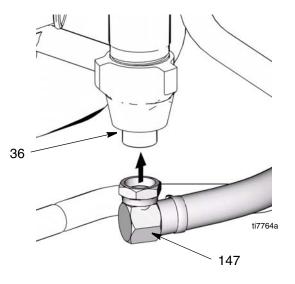
17. Replace clip pin (121) to secure.



18. Reinstall filter housing (110).



19. Connect suction hose (147) to pump outlet (36).



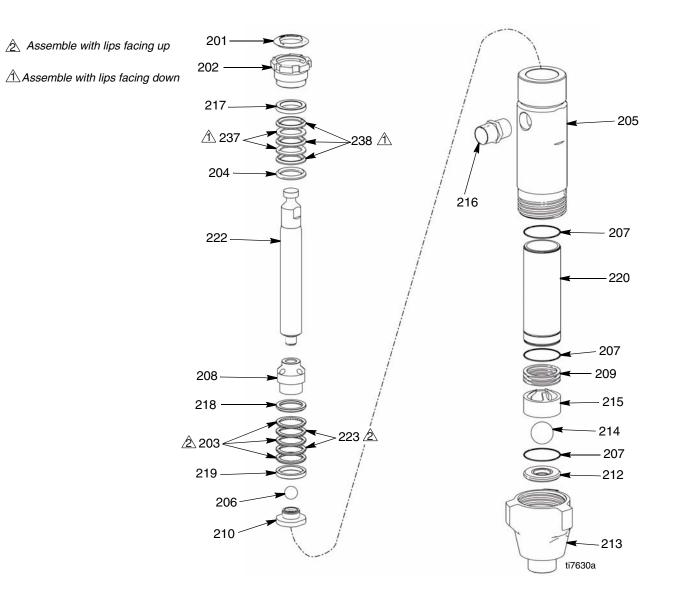
Parts

FN	Part No	Description
201*	116385	PLUG
202	15G198	NUT,packing
203*		V-PACKING, UHMWPE, blue
204*	15H250	GLAND, male, throat, brass
205	287836	CYLINDER, pump
206*	100279	BALL, sst, 0.5625 in.
207*†	116377	PACKING, o-ring
208	15G196	GUIDE, ball
	197306	
210	287837	VALVE, piston
212†	287838	SEAT, carbide, includes 214 and
		207
213	15G195	HOUSING, intake (foot)
214*†	108001	BALL, sst, 1.000 in.
215	15G199	GUIDE, ball

0.5.7	FN	Part No	Description	Qty
Qty	216	15H335	FITTING, nipple, 1 inch NPT	1
1	217*		GLAND, female, piston steel	1
1	218*	15G282	GLAND, male	1
3	219*	15G283	GLAND, female	1
1	220	287833	SLEEVE, cylinder	1
1	222	287832	ROD, piston	1
1	223*		V-PACKING, brown	2
3	237*		PACKING, vee, leather	2
1	238*		PACKING, vee, (UHMWPE)	3
3				

* These parts are included in repair kit 287835, which may be purchased separately.

† These parts are also included in Carbide Seat Kit 287838, which may be purchased separately.



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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.

ADDITIONAL WARRANTY COVERAGE

Graco does provide extended warranty and wear warranty for products described in the "Graco Contractor Equipment Warranty Program".

mm 311485 This manual contains English

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