

AirPro™ Siphon Feed Airspray Gun

312578N
EN

Conventional, HVLP, and compliant guns for specialty industrial applications.
For professional use only.

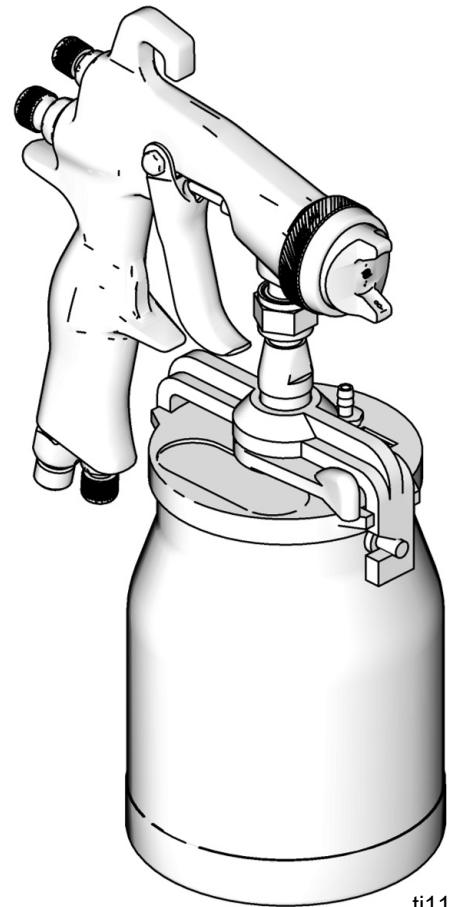
100 psi (0.7 MPa, 7 bar) Maximum Air Inlet Pressure



Important Safety Instructions

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

See page 2 for model information.



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Models

Model, Series	Orifice Size in (mm)	Spray Type	Max. HVLP/Compliant Air Pressure psi (MPa, bar)
With Siphon Cup			
289028, A	0.055 (1.4)	Conventional	N/A
289029, A	0.070 (1.8)	Conventional	N/A
289030, A	0.055 (1.4)	HVLP	30 (0.21, 2.1)
289031, A	0.070 (1.8)	HVLP	30 (0.21, 2.1)
289032, A	0.055 (1.4)	Compliant	35 (0.24, 2.4)
289033, A	0.070 (1.8)	Compliant	35 (0.24, 2.4)
Without Siphon Cup			
289991, A	0.055 (1.4)	Conventional	N/A
289992, A	0.070 (1.8)	Conventional	N/A
289993, A	0.055 (1.4)	HVLP	30 (0.21, 2.1)
289994, A	0.070 (1.8)	HVLP	30 (0.21, 2.1)
289995, A	0.055 (1.4)	Compliant	35 (0.24, 2.4)
289996, A	0.070 (1.8)	Compliant	35 (0.24, 2.4)

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. Refer back to these warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

 WARNING	
	<p>FIRE AND EXPLOSION HAZARD</p> <p>Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:</p> <ul style="list-style-type: none"> • 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 arc). • Keep work area free of debris, including solvent, rags 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. See Grounding instructions. • If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem. • Keep a working fire extinguisher in the work area.
	<p>PRESSURIZED EQUIPMENT HAZARD</p> <p>Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.</p> <ul style="list-style-type: none"> • Follow Pressure Relief Procedure in this manual, when you stop spraying 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.
	<p>EQUIPMENT MISUSE HAZARD</p> <p>Misuse can cause death or serious injury.</p> <ul style="list-style-type: none"> • 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. • Check equipment daily. Repair or replace worn or damaged parts immediately. • Do not alter or modify equipment. • Use equipment only for its intended purpose. Call your Graco distributor for information. • Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. • Do not kink or overbend hoses or use hoses to pull equipment. • Keep children and animals away from work area. • Comply with all applicable safety regulations.

 **WARNING**



PERSONAL PROTECTIVE EQUIPMENT

You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:

- Protective eyewear
- Clothing and respirator as recommended by the fluid and solvent manufacturer
- Gloves
- Hearing protection

Gun Selection

Conventional Guns

Excellent atomization and high production rates typically with some reduction in transfer efficiency.

HVLP Guns

An HVLP gun is a high transfer efficiency gun which limits the air pressure at the air cap to 10 psi (0.07 MPa, 0.7 bar) maximum. In some areas, an HVLP gun is required for compliance with environmental standards.

Compliant Guns

A compliant gun is a high transfer efficiency gun which has been tested to have a transfer efficiency greater than or equal to HVLP guns. The Graco compliant guns have no restrictions on air cap pressures, but the gun inlet pressure must remain under 35 psi (0.24 MPa, 2.4 bar) to remain in compliance.

Setup



- Check that your shop air provides adequate air flow. See **Technical Data**, page 17, for minimum cfm requirements.
- Recommended 5/16 in. (7.9 mm) ID hose, optional 3/8 in. (10 mm) ID air hose.
- Set shop air pressure regulator (not supplied) according to paint manufacturer's recommendation. See maximum compliant air pressure on air cap.
- Make sure no air restrictions, such as low-volume cheater-valves, obstruct the air flow. If an air adjusting valve is desired, use a Graco adjustable air valve (234784).

1. Shut off the air supply.
2. Install a shutoff valve (not supplied) downstream of the air regulator to shut off gun air.
3. Install an inline air filter (not supplied) to clean and dry the gun air supply.
4. Connect a clean, dry, filtered air supply to the air inlet fitting. See FIG. 1.
5. Connect fluid cup to the fluid inlet fitting.

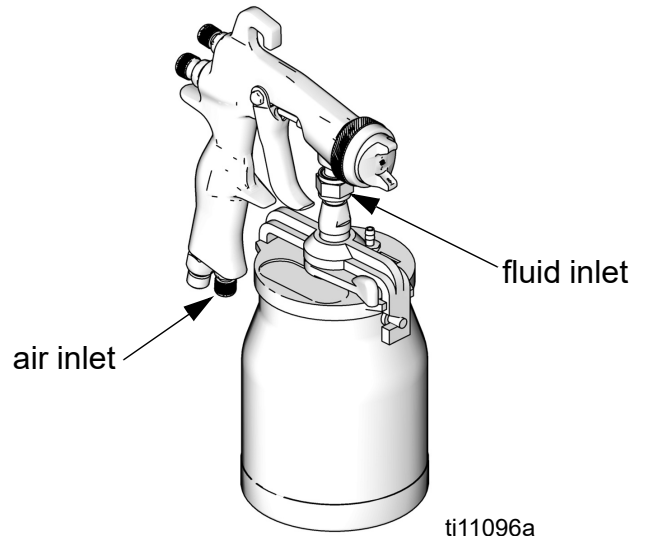


FIG. 1

Ground the Gun

Check your local electrical code for detailed grounding instructions.

Ground the gun through connection to a Graco-approved conductive air supply hose.

Flush Before Using Equipment

The equipment was tested with lightweight oil, which is left in the fluid passages to protect parts. To avoid contaminating your fluid with oil, flush the equipment with a compatible solvent before using the equipment. See **Flush**, page 8.

Adjust Spray Pattern

1. Rotate the air cap to achieve desired spray pattern. See FIG. 2

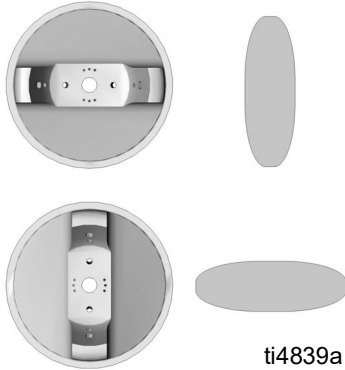


FIG. 2

2. To achieve full fan pattern, open the air control valve by turning the knob fully counterclockwise. See FIG. 3.
3. To create a round pattern, turn the pattern air off by turning the air control valve fully clockwise. See FIG. 3.
4. Trigger gun and adjust gun air pressure. Refer to **Technical Data**, page 17, for inlet air pressure.
5. To establish the correct fluid flow, turn the fluid control valve counterclockwise until no restriction of the trigger movement is felt, then turn out another half turn.

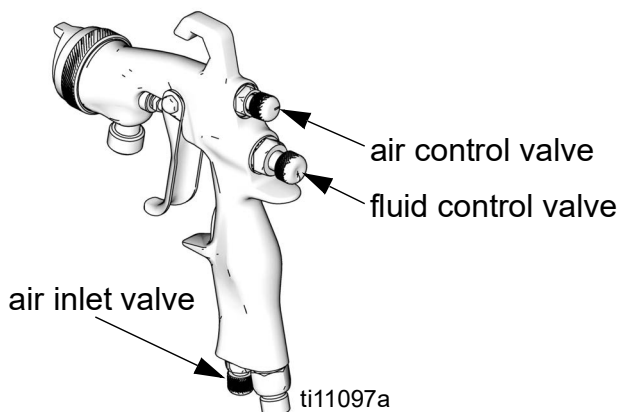


FIG. 3

6. To reduce fluid flow, turn the fluid control valve clockwise.
 - If the fluid control valve is turned clockwise all the way, the gun will emit only air.
 - If you cannot achieve the correct fluid flow with the fluid control valve, a different sized nozzle may be necessary. For smaller fluid flow, use the next size smaller nozzle. For a larger fluid flow, use the next size larger nozzle.
7. Spray a test pattern. Evaluate the spray pattern size and atomization.
8. To achieve a narrow spray pattern, turn air control valve clockwise.
9. To improve atomization, reduce the fluid flow rate. Increasing the air pressure can improve atomization but may result in poor Transfer Efficiency (TE) or non-compliant operation.

Operation



Pressure Relief Procedure

1. Turn off the gun air supply.
2. Trigger the gun to relieve pressure.

Apply Fluid

CAUTION

Excessive atomizing air pressure can increase over-spray, reduce transfer efficiency, and result in a poor quality finish. Regulatory agencies in certain states prohibit the operation of a spray gun above 10 psi (69 kPa, 0.7 bar) atomizing air cap pressure.

1. Fill the cup with material. Do not fill past the shoulder on cup.
2. Turn on the shop air to the gun. Set atomizing pressure with the gun fully triggered.
3. Adjust the pattern size and shape. See page 6.
4. To achieve the best results when applying fluid:
 - Keep the gun perpendicular and 6 to 8 inches (150 to 200 mm) from the object being sprayed.
 - Use smooth, parallel strokes across the surface to be sprayed with 50% overlap.

 See **Troubleshooting**, page 10, if you experience an irregular pattern.

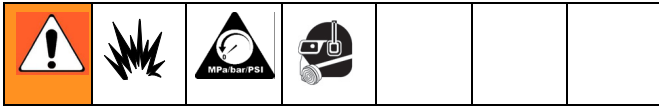
When using the HVLP spray gun, instead of a conventional airspray gun, you may need to use a slightly slower hand movement and make fewer passes with the gun to coat a part. This is due to the reduced spray velocity produced by lower HVLP air pressures, along with a larger fluid particle size because there is less air to blow off solvents than is produced by conventional airspray. Take care to avoid runs or sags as you spray.

Volatile Organic Compounds (VOC) Regulation

In certain states, spraying solvents that release VOCs into the atmosphere when cleaning a spray gun is prohibited. To comply with these air quality laws, you must use a cleaning method that prevents the escape of VOC vapors into the atmosphere. See **Compliant Cleaning Methods**, page 9.

 Clean air line filters as directed by the manufacturer.

Daily Gun Maintenance



General Tasks

Follow the **Pressure Relief Procedure**, page 7.

- Frequently lubricate the gun moving parts with a drop of non-silicone oil.
- Do not disassemble the spray gun if you are having a spray pattern problem. See **Troubleshooting**, page 10, for information on how to correct the problem.
- Clean the fluid and air line filters daily.
- Check for fluid leakage. Tighten fittings or replace equipment as needed.


CAUTION

Solvent left in gun air passages could result in a poor quality paint finish. Do not use any cleaning method that may allow solvent into the gun air passages.

- Do not point gun up while cleaning it.
- Do not wipe gun with a cloth soaked in solvent; wring out the excess.
- Do not immerse the gun in solvent.

Flush

Flush before using the equipment, before changing colors, and when you are done spraying. Use solvent that is compatible with gun wetted parts and with the fluid that will be sprayed.

 See **Compliant Cleaning Methods**, page 9, to comply with air quality laws if applicable.

1. Follow **Pressure Relief Procedure**, page 7.


2. Dispose of any paint in the cup.
3. Fill the cup with a small amount of solvent.
4. Spray into a grounded metal waste container until the equipment is clean.
5. Follow **Pressure Relief Procedure**, page 7.

Clean Gun and Cup

CAUTION

- Do not submerge gun in solvent. Solvent dissolves lubricant, dries out packings, and clogs air passages.
- Do not use metal tools to clean air cap holes as this may scratch them and distort the spray pattern.
- Use a compatible solvent.

1. Flush, page 8.
2. Dampen a soft cloth with solvent and wring out the excess. Point the gun down and wipe off the outside of the gun and cup.
3. Make sure cup lid vent hole is clear.
4. Blow dry gun inside and out. Lubricate.

 See **Compliant Cleaning Methods**, page 9, to comply with air quality laws if applicable.

Clean Nozzle and Air Cap

1. Remove air cap (13), trigger gun, remove nozzle (11), and soak both in a compatible cleaning solution.

CAUTION
Trigger the gun whenever you tighten or remove the nozzle. This keeps the needle tip away from the nozzle seating surface and prevents the tip from being damaged.

2. Clean air cap, nozzle, and front of the gun with a soft-bristle brush dipped into compatible solvent. Do not use a wire brush or metal tools.
3. Use a soft implement, such as a toothpick, to clean out air cap holes.
4. Trigger the gun while you install the fluid nozzle with the gun tool. Tighten the nozzle securely to 155-165 in-lb (17.5-18.6 N•m) to obtain a good seal.

5. Install the retaining ring (14) and air cap (13).



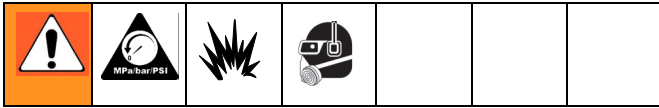
When reassembling, make sure the air cap matches the color etched onto the side of the nozzle (gold, brown, grey, blue, etc.).





6. After cleaning the gun, lubricate the following parts with lubricant 111265 daily:
 - fluid control valve threads
 - trigger pivot pin
 - fluid needle shaft

Compliant Cleaning Methods

1. Place spray gun in a gun washer that completely encloses the gun and components during cleaning, rinsing, and draining.
2. Spray solvent through the spray gun into a closed gun cleaning station.

Troubleshooting



Problem	Cause	Solution
Spray Pattern  Right	Normal pattern.	No action necessary.
Spray Pattern  Wrong Heavy top or bottom	Dirty or damaged air cap or fluid nozzle.	Rotate air cap 180°. <i>If pattern follows air cap, problem is in air cap (13). Clean and inspect. If pattern is not corrected, replace air cap.</i> <i>If pattern does not follow the air cap, the problem is with the fluid nozzle. Clean and inspect the nozzle. If the pattern is not corrected, replace nozzle.</i>
Spray Pattern  Wrong Split pattern	Pressure too high for viscosity of material being sprayed.	Reduce air pressure and increase material viscosity. Correct pattern by narrowing fan size with fluid control valve (8).
Spray Pattern  Wrong	Dirty or distorted air horn holes.	Clean and inspect air cap. If pattern is not corrected, replace air cap.
Gun spitting	Air getting into paint stream.	Check if cup is empty and fill. Tighten fluid nozzle (11). Check and tighten needle packing nut (17). Check fluid nozzle (11) for damage.

Problem	Cause	Solution
Will not spray	Cup is empty.	Fill cup.
	Fluid control valve (8) turned too far clockwise.	Adjust valve (8) counterclockwise.
Excessive air blowing back	Loose fluid nozzle (11).	Tighten fluid nozzle (11).
	Damaged fluid nozzle seal (19).	Replace seal (19).
Excessive air leak behind trigger.	Worn u-cups/air valve.	Repair gun (Kit 289408). Be sure to use all included parts.
	Worn trigger.	Replace trigger (part 289140). If leak persists repair gun (Kit 289408).

Repair




See **Parts**, page 14, for callout references.

Disassembly

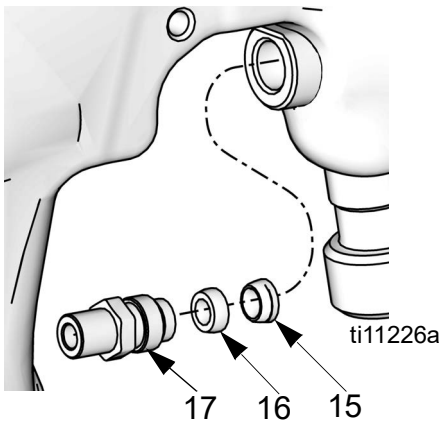
1. Unscrew retaining ring (14) to remove air cap (13b). Check o-rings (13a and 13c) and replace if necessary.
2. Trigger gun while unscrewing nozzle (11) to prevent needle damage.
3. Check o-ring (19) and replace if necessary.
4. Remove fluid control valve (8), spring (26), needle (9), and nut (7). Inspect. Replace tip (9c), needle (9), and u-cup seal (20) as necessary. If replacing needle tip, use low strength thread adhesive on needle tip threads.

5. Remove spring (28) and push the air valve assembly (6) out the back of the gun. Inspect. Replace air valve assembly (6) and u-cup seal (20) as necessary. Use tool (33) to install u-cup seal.
6. Remove trigger nut (22), trigger pin (21), wave washer (18), and trigger (10).
7. Unscrew needle packing nut (17) and remove u-cup packing (16) and spreader (15).
8. Remove air control valve assembly (5). Inspect and replace as necessary.
9. Remove air inlet valve assembly (27). Inspect and replace as necessary.

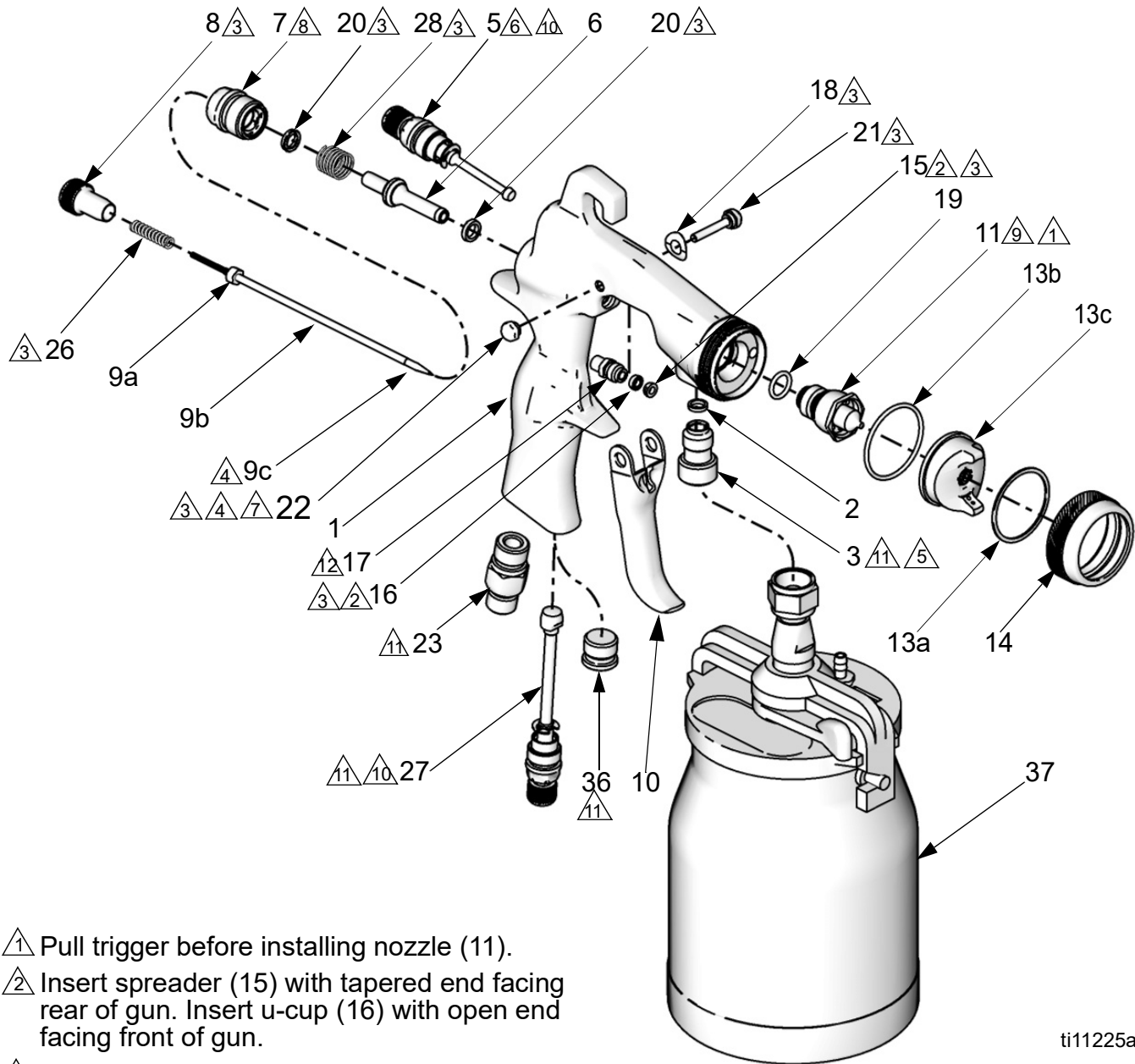
 Do not remove the fluid inlet fitting. It was attached to the gun body with permanent thread locker. There is also no need to remove the air inlet fitting.

Reassembly

1. Install air control valve assembly (5) with valve turned fully counterclockwise to outermost position. Torque to 85-90 in-lb (9.6-10.2 N•m).
2. Install air inlet valve assembly (27) with valve turned fully counterclockwise to outermost position. Torque to 205-215 in-lb (23.2-24.3 N•m).
3. Lubricate u-cup spreader (15) and u-cup packing (16). Insert spreader (15) with tapered end facing rear of gun. Install u-cup packing (16) with open end facing front of gun. Install packing nut (17). Torque to 3 in-lb (0.3 N•m).
4. Install wave washer (18) with cupped side toward the gun body. Lubricate and apply thread retainer to trigger pin (10). Install trigger (10), trigger pin (21), and trigger nut (22). Torque to 15-20 in-lb (1.7-2.2 N•m).
5. Install air valve assembly (6), spring (28), and nut (7). Torque to 175-185 in-lb (19.8-20.9 N•m).
6. Install needle (9) and spring (26). Lightly lubricate and install fluid control valve (8).
7. Trigger gun while replacing nozzle (11). Torque to 155-165 in-lb (17.5-18.6 N•m).
8. Install air cap assembly (13) and retaining ring (14).



Parts



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- ① Pull trigger before installing nozzle (11).
- ② Insert spreader (15) with tapered end facing rear of gun. Insert u-cup (16) with open end facing front of gun.
- ③ Apply lubricant.
- ④ Apply low strength thread retainer.
- ⑤ Apply high-strength thread retainer.
- ⑥ Torque to 85-90 in-lbs (9.6-10.2 N•m).
- ⑦ Torque to 15-20 in-lbs (1.7-2.2 N•m).
- ⑧ Torque to 175-185 in-lbs (19.8-20.9 N•m).
- ⑨ Torque to 155-165 in-lbs (17.5-18.6 N•m).
- ⑩ Install with valve assembly turned fully counterclockwise to outermost position.
- ⑪ Torque to 205-215 in-lbs (23.2-24.3 N•m).
- ⑫ Torque to 3 in-lbs (0.3 N•m).

Ref.	Part No.	Description	Qty.	
				Included in Gun Repair Kit 289790.
1	---	BODY, gun	1	
2‡	---	GASKET, fluid inlet	1	Included in Trigger Repair Kit 289143 (contains 5 of each part).
3‡	---	FITTING, fluid inlet	1	
5	289796	VALVE, air control, assembly	1	+ Included in Needle Packing Repair Kit 289455 (contains 5 of each part).
6*	289039	VALVE, air, assembly	1	
7*	289052	NUT, air valve, u-cup assembly	1	* Included in Air Valve Repair Kit 289408.
8	289097	VALVE, fluid control	1	
9	See table	NEEDLE, assembly (Includes 9a-9c)	1	Included in Air Cap Seal Kit 289791 (contains 5 of each Part).
10	289140	TRIGGER, gun, razor industrial	1	Included in Retaining Ring Kit 289079.
11	See table	NOZZLE, fluid,	1	
13	See table	AIR CAP, assembly (includes 13a-13c)	1	<i>Included in Gun Body Kit 289019.</i>
13a	---	WASHER	1	‡ <i>Included in Fluid Inlet Fitting Kit 24C269.</i>
13b	---	O-RING	1	
13c	See table	AIR CAP	1	---Not sold separately.
14	---	RING, retaining	1	
15 +	---	SPREADER, u-cup	1	
16 +	---	PACKING, u-cup	1	
17	289793	NUT	1	
18	---	WASHER, wave	1	
19	111457	PACKING, o-ring	1	
20*	---	PACKING, u-cup, gun	1	
21	---	PIN, pivot	1	
22	---	PIN, pivot, nut	1	
23	289451	FITTING, air inlet	1	
26*	---	SPRING, compression	1	
27	289798	VALVE, assembly, air inlet	1	
28*	---	SPRING, compression	1	
29	289794	TOOL, gun	1	
33*	---	TOOL, installation, seal	1	
36	289452	NUT, air plug	1	
37	244130	CUP, 1 qt.	1	

Repair Kits

Without Siphon Cup

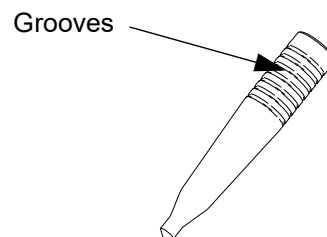
Model	Spray Type	Nozzle Size in. (mm)	Air Cap Kit (13a-13c)	Nozzle Kit (11, 19)	Needle Assembly Kit (9a-9c)	Needle/ Nozzle Kit (9a-9c, 11, 19)	Needle Tip Kit (9c, 5-pack)
289991	Conventional	0.055 (1.4)	289769	289560	289788	289487	288984
289992	Conventional	0.070 (1.8)	289769	289783	289788	289488	288984
	Conventional	0.086 (2.2)	24C173	24C174	253777	24C175	289004
289993	HVLP	0.055 (1.4)	289435	289417	289789	289489	289001
289994	HVLP	0.070 (1.8)	289435	289418	289789	289490	289001
289995	Compliant	0.055 (1.4)	289768	289781	289788	289491	288984
289996	Compliant	0.070 (1.8)	289768	289782	289788	289492	288984

With Siphon Cup

Model	Spray Type	Nozzle Size in. (mm)	Air Cap Kit (13a-13c)	Nozzle Kit (11, 19)	Needle Assembly Kit (9a-9c)	Needle/ Nozzle Kit (9a-9c, 11, 19)	Needle Tip Kit (9c, 5-pack)
289028	Conventional	0.055 (1.4)	289769	289560	289788	289487	288984
289029	Conventional	0.070 (1.8)	289769	289783	289788	289488	288984
	Conventional	0.086 (2.2)	24C173	24C174	253777	24C175	289004
289030	HVLP	0.055 (1.4)	289435	289417	289789	289489	289001
289031	HVLP	0.070 (1.8)	289435	289418	289789	289490	289001
289032	Compliant	0.055 (1.4)	289768	289781	289788	289491	288984
289033	Compliant	0.070 (1.8)	289768	289782	289788	289492	288984

Needle Tips

Grooves	Needle Tip Kit (5-pack)
0	289004
6	288984
7	289001



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Accessories

Repair Kits

Part No. Description

289455	Needle Packing Repair Kit
289790	Gun Repair Kit
289791	Air Cap Seal Kit
289143	Trigger Repair Kit
289408	Air Valve Repair Kit
289079	Retaining Ring Kit
24C269	Fluid Inlet Fitting Kit
26A102	Fluid Inlet Fitting with Flats Kit
24C310	Nozzle O-Ring Kit, 5-pack
289019	Gun Body Kit
195065	Steel Air Inlet Fitting

Air Valves

Part No. Description

234784	Air Control Valve with Gauge
235119	Gun Air Regulator Assembly
239655	Swivel Air Valve

Test Gauges

Part No. Description

289589	HVLP Verification
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Cleaning Kit

Part No. Description

105749	Cleaning Brush
111265	Gun Lubricant
15C161	Ultimate Gun Cleaning Kit

Hoses

Part No. Description

239636	15 ft Air Hose Assembly (5/16 in.)
239637	25 ft Air Hose Assembly (5/16 in.)

Cups

Part No. Description

244130	Aluminum Cup with Lid, 1 qt
239802	1 qt SST Pressure Cup with Single Air Regulator
239803	1 qt SST Pressure Cup with Double Air Regulator
235117	2 qt Pressure Cup with Regulator and Hose
239804	1 qt SST Pressure Cup with Remote Air Regulator
240266	Disposable Polyethylene Cup Liners (40-pack), for 1 qt siphon and pressure cups only.

3M™ PPS™ Cups and Accessories

Part No. Description

25R581	AirPro siphon gun adaptor
25R579	AirPro gravity gun adaptor
25R580	Finex gravity gun adaptor
25R584	2 hard cups marked with mix ratios 6.8 oz (200 ml)
273137	50 piece lid and liner kit 6.8 oz (200 ml)
25R582	2 hard cups marked with mix ratios 22 oz (650 ml)
273134	50 piece lid and liner kit 22 oz (650 ml)
25R583	2 hard cups marked with mix ratios 28 oz (830 ml)
273136	50 piece lid and liner kit 28 oz (830 ml)
25R661	AirPro gravity gun starter kit

Tips

Part No. Description

24E484	.030 SST Needle Tips (Pack of 5)
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Technical Data

Maximum Air Inlet Pressure	100 psi (0.7 MPa, 7 bar)
Maximum HVLP/Compliant Inbound Air Pressure	
HVLP	30 psi (0.21 MPa, 2.1 bar)*
Compliant	35 psi (0.24 MPa, 2.4 bar)
Air Consumption	
Conventional	12.2 CFM at 43 psi (0.3 MPa, 3.0 bar)
HVLP	11.2 CFM at 30 psi (0.21 MPa, 2.1 bar)
Compliant	10.4 CFM at 35 psi (0.24 MPa, 2.4 bar)
Fluid and Air Operating Temperature Range	32°F to 109°F (0°C to 43°C)
Spray Gun:	
Air Inlet	1/4 npsm (R1/4-19)
Fluid Inlet	3/8 npsm (R3/8-19)
Weight with cup	2.1 lbs (1.0 kg)
Sound Data:	
Conventional	
Sound pressure at 43 psi (0.3 MPa, 3.0 bar)	78.22 dB(A)**
Sound power at 43 psi (0.3 MPa, 3.0 bar)	86.68 dB(A)**
HVLP	
Sound pressure at 30 psi (0.21 MPa, 2.1 bar)	81.8 dB(A)**
Sound power at 30 psi (0.21 MPa, 2.1 bar)	88.7 dB(A)**
Compliant	
Sound pressure at 35 psi (0.24 MPa, 2.4 bar)	74.68 dB(A)**
Sound power at 35 psi (0.24 MPa, 2.4 bar)	83.07 dB(A)**
Siphon Cup Size	1 qt. (0.95 liter)
Wetted Parts	303 stainless steel, 17-4 PH stainless steel, PEEK, acetal, UHMWPE

* Produces 10 psi (0.07 MPa, 0.7 bar) spraying pressure at air cap.

** All readings were taken with the fan valve fully open (fan full size) at the assumed operator position. Sound power was tested per ISO 9614-2.

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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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

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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.

Toll Free Phone Number: 1-800-328-0211

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 312578

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