

Pressure Cups

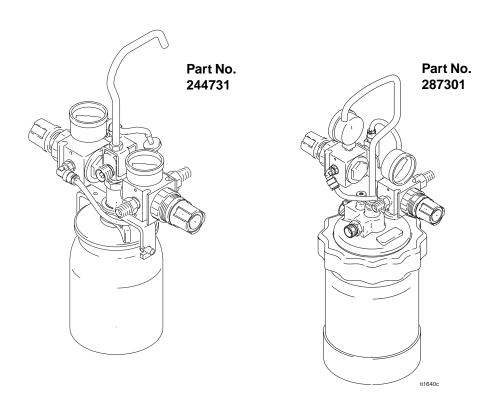
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Part No. 244731, Series A, 1 Quart Size

20 psi (0.14 MPa, 1.4 bar) Maximum Working Fluid Pressure

Part No. 287301, Series A, 2 Quart Size

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



PROVEN QUALITY. LEADING TECHNOLOGY.

Preparation for Operation

M WARNING

Halogenated Hydrocarbon Hazard

Never use 1, 1, 1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in this equipment. Such use could result in a serious chemical reaction, with the possibility of explosion, which could cause death, serious injury, and/or substantial property damage.

Consult your fluid suppliers to ensure that the fluids being used are compatible with aluminum parts.

Prepare the paint or other coating according to the manufacturer's instructions. Strain the paint through a fine nylon mesh bag, available at paint dealers. Fill the cup (A) with paint and fasten the lid securely.

MARNING

Fire, Explosion, and Electric Shock Hazard





When using the pressure cup with an electrostatic spray gun, connect the Graco Grounded Air Supply Hose between the gun air fitting on the pressure cup and the gun's air inlet. The electrostatic gun air inlet has a left-hand thread. Connect the air supply hose ground wire to a true earth ground.

Connect the air (E) and fluid (D) hoses as shown in Fig. 1. On electrostatic guns, connect the air hose ground wire (F) to a true earth ground.

Measure the resistance between the gun air inlet fitting and a true earth ground. The resistance must be less than 1 megohm.

Key

- A Pressure Cup
- B Main Air Inlet
- C Fluid Outlet
- D Fluid Hose
- E Air Hose (for electrostatic guns use the grounded air hose shown)

- F Air Hose Ground Wire (used on electrostatic guns only)
- G Air Spray Gun (electrostatic gun shown)
- 4 Gun Air Regulator
- 6 Cup Air Regulator

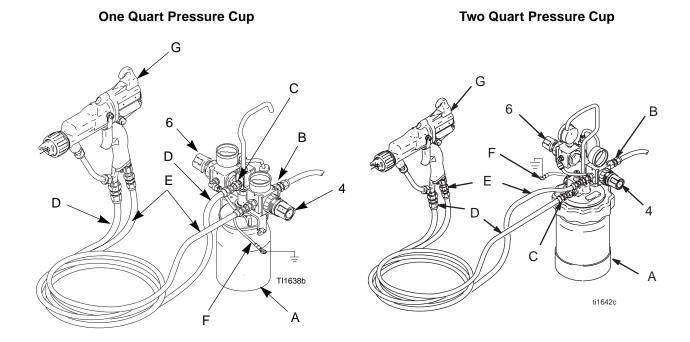


Fig. 1. Typical Installation

Operation

One Quart Pressure Cup

M WARNING

Pressurized Equipment Hazard

To reduce the risk of over-pressurizing the equipment, which could cause serious injury including splashing fluid in the eyes or on the skin, never exceed 20 psi (0.14 MPa, 1.4 bar) air pressure to the cup. The safety valve (9) is preset to relieve pressure at 20 psi (0.14 MPa, 1.4 bar). Do not alter the safety valve.

Pressure Relief Procedure

WARNING

Pressurized Equipment Hazard

The system pressure must be manually relieved to prevent the equipment from starting or spraying accidentally. To reduce the risk of an injury from accidental spray from the gun or splashing fluid, follow the **Pressure Relief Procedure** whenever you:

- are instructed to relieve the pressure
- stop spraying
- check or service any of the system equipment
- or disconnect any of the system equipment.
- On electrostatic guns only, turn the ES ON/OFF valve OFF.

- 2. Turn off the gun air regulator (4) and the cup air regulator (6).
- 3. Trigger the gun into a grounded metal waste container to relieve the fluid pressure.
- 4. Place the cup on a table and slowly release the clamp lever (3b) to bleed off pressure in the cup. Be sure to return the clamp lever to the locked position before turning the gun regulator on again.

Daily Setup

- 1. Fill the cup (2) with fluid. Fasten the lid (3) securely.
- 2. Turn on the main air supply.
- 3. Set the gun air regulator (4) to 40 psi (0.28 MPa, 2.8 bar) while spraying. Push the knob in to lock the regulator, pull out to unlock.
- 4. Set the cup air regulator (6) to 10 psi (.07 MPa, 0.7 bar). Push the knob in to lock the regulator, pull out to unlock.
- Spray a test panel. If the paint is not fully atomized, either decrease the fluid pressure using the cup air regulator or increase the setting of the gun air regulator.

To decrease the cup fluid pressure, turn the cup air regulator knob counterclockwise incrementally until you get the desired results.

Always use the lowest possible pressure needed to achieve the desired results.

Operation

Two Quart Pressure Cup

WARNING

Pressurized Equipment Hazard

To reduce the risk of over-pressurizing the equipment, which could cause serious injury including splashing fluid in the eyes or on the skin, never exceed 50 psi (0.35 MPa, 3.5 bar) air pressure to the cup. The safety valve (9) is preset to relieve pressure at 50 psi (0.35 MPa, 3.5 bar). Do not alter the safety valve.

Pressure Relief Procedure

WARNING

Pressurized Equipment Hazard

The system pressure must be manually relieved to prevent the equipment from starting or spraying accidentally. To reduce the risk of an injury from accidental spray from the gun or splashing fluid, follow the **Pressure Relief Procedure** whenever you:

- are instructed to relieve the pressure
- stop spraying
- · check or service any of the system equipment
- or disconnect any of the system equipment.
- On electrostatic guns only, turn the ES ON/OFF valve OFF.

- 2. Turn off the gun air regulator (2) and the cup air regulator (10).
- 3. Open the pressure relief valve all the way (counterclockwise) to bleed off pressure in the cup.
- 4. Trigger the gun into a grounded metal waste container to relieve the fluid pressure.
- 5. Place the cup on a table and slowly unscrew the lid.

Daily Setup

- 1. Fill the cup (1) with fluid. Fasten the lid securely.
- 2. Turn on the main air supply.
- 3. Turn the pressure relief valve fully clockwise.
- 4. Set the gun air regulator (2) to 40 psi (0.28 MPa, 2.8 bar) while spraying. Push the knob in to lock the regulator, pull out to unlock.
- 5. Set the cup air regulator (10) to 10 psi (.07 MPa, 0.7 bar). Push the knob in to lock the regulator, pull out to unlock.
- Spray a test panel. If the paint is not fully atomized, either decrease the fluid pressure using the cup air regulator or increase the setting of the gun air regulator.

To decrease the cup fluid pressure, turn the cup air regulator knob counterclockwise incrementally until you get the desired results.

Always use the lowest possible pressure needed to achieve the desired results.

Cleaning

One Quart Pressure Cup

ACAUTION

To avoid damage to the air regulator diaphragms, do not clean the air regulators in a gun washer or use any cleaning method which allows solvent to enter the regulator.

- 1. Relieve the pressure, page 4.
- 2. Push the clamp lever (3b) to the unclamped position, against the yoke. See Fig. 2.
- Twist the lid counterclockwise to disengage it. Remove the lid.
- 4. Clean the lid and the cup, using a compatible solvent.

! CAUTION

To avoid swelling of the gasket (3g), do not soak the gasket or expose it to solvent for a prolonged period when cleaning the pressure cup lid.

- 5. Fill the cup with clean solvent and replace the lid.
- 6. Set the cup air regulator at 10 psi (.07 MPa, 0.7 bar) and spray into a waste container until clean solvent comes from the gun.
- 7. Relieve the pressure.

- 8. Remove the solvent from the cup and wipe the equipment with a solvent dampened rag.
- 9. Assemble the empty cup and set the cup air regulator to 10 psi (.07 MPa, 0.7 bar). Spray the gun into a waste container until all the solvent is purged.
- 10. Relieve the pressure.

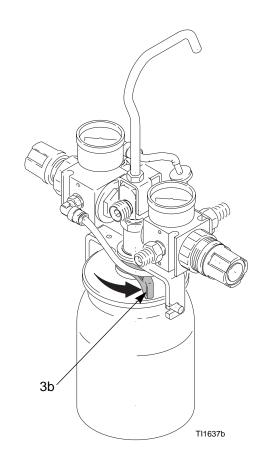


Fig. 2: One Quart Pressure Cup

Cleaning

Two Quart Pressure Cup

ACAUTION

To avoid damage to the air regulator diaphragms, do not clean the air regulators in a gun washer or use any cleaning method which allows solvent to enter the regulator.

- Relieve the pressure, page 4. On electrostatic guns, turn the ES ON/OFF valve OFF.
- 2. Empty the paint from the cup and clean the cup and lid with a compatible solvent.
- 3. Inspect the lid gasket. Replace if damaged. When replacing the gasket, remove the old adhesive from inside the lid. Apply new adhesive (3M #847 Scotch-Grip®or equivalent) to the lid when installing the new gasket.
- 4. Fill the cup with clean solvent, replace the lid, and close the pressure relief valve (a). See Fig. 3.
- 5. Set the cup air regulator at 10 psi (.07 MPa, 0.7 bar) and spray into a waste container until clean solvent comes from the gun.
- 6. Relieve the pressure.
- 7. Remove the solvent from the cup and wipe the equipment with a solvent dampened rag.
- 8. Assemble the empty cup and set the cup air regulator to 10 psi (.07 MPa, 0.7 bar). Spray the gun into a waste container until all the solvent is purged.
- 9. Relieve the pressure.

ACAUTION

To avoid swelling of the gasket, do not soak the gasket or expose it to solvent for a prolonged period when cleaning the pressure cup lid.

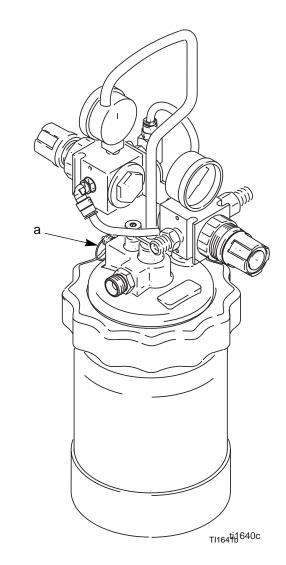
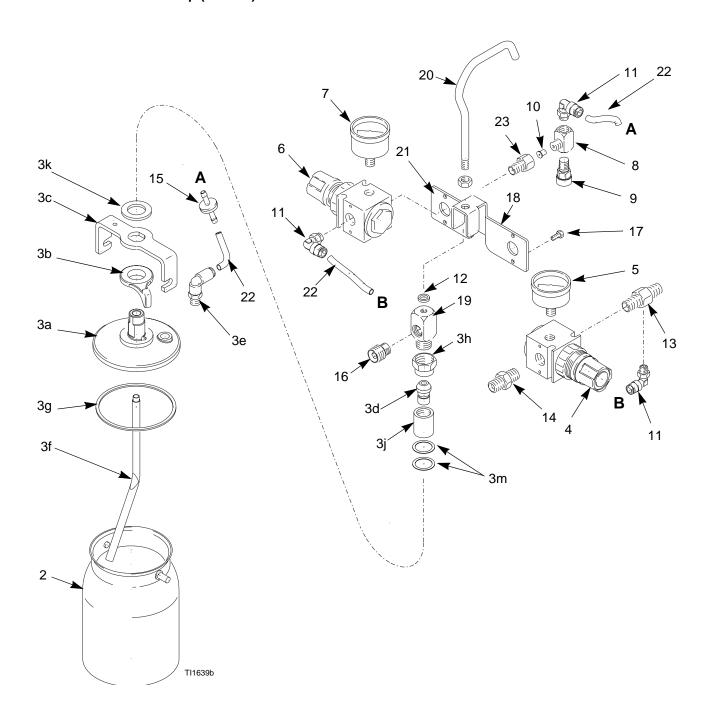


Fig. 3: Two Quart Pressure Cup

Parts

Part No. 244731 Pressure Cup (1 Quart)



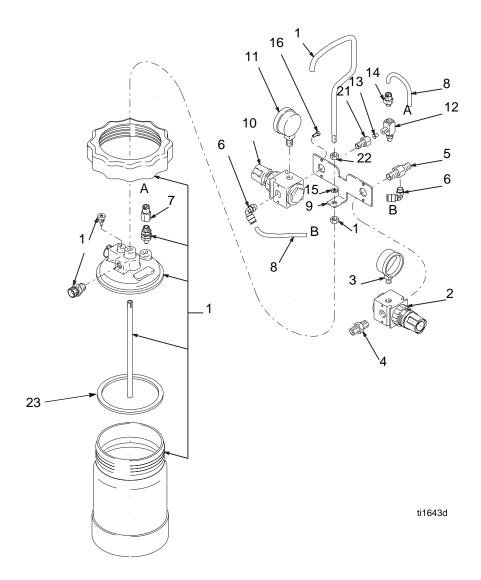
D-f				Ref.	Part No.	Description	Qty
Ref. No.	Part No.	Description	Qty	No.		•	
NO.				7	111500	GAUGE, pressure, air, cup	1
1	245345	CUP, pressure;	1	8	110440	TEE	1
		includes items 2 and 3		9	112059	VALVE, safety	1
2	239727	. CUP, bare	1	10	189557	RESTRICTOR, air	1
3	245344	. LID; includes items 3a-3m	1	11	112698	ELBOW	3
3a	190170	LID, bare	1	12	104008	WASHER, lock	1
3b	276499	LEVER, clamp	1	13	183696	TEE	1
3c	192330	YOKE, lid	1	14	156971	NIPPLE	1
3d	189909	SEAT	1	15	M71256	VALVE, check	1
3e	112781	ELBOW, swivel	1	16	172682	ADAPTER, hose	1
3f	189882	TUBE, fluid	1	17	112788	SCREW, cap, socket hd	4
3g	189883	GASKET, lid	1	18	198784	BRACKET	1
3ĥ	190033	NUT, adapter union	1	19	172680	ELBOW	1
3j	190375	SLEEVE, cup	1	20	172620	HANDLE	1
3k	154628	WASHER	1	21	100188	NUT, hex	1
3m	116947	WASHER, wave	2	22	054720	TUBE, polyurethane;	10 in.
4	111804	REGULATOR, air, gun	1			1/4 in. (6 mm) OD	
5	108190	GAUGE, pressure, air, gun	1	23	117243	ADAPTER, hex pipe	1
6	116904	REGULATOR, air, pressure cup	1				

Technical Data (Model 244731)

Category	Data
Maximum Working Fluid Pressure	20 psi (0.14 MPa, 1.4 bar)
Air inlet fitting	1/4 npt(m)
Diameter	5.25 in. (133 mm)
Overall Height	17.75 in. (451 mm)
Weight	4 lb (1.8 kg)
Wetted Parts	Nvlon, Aluminum, Polvethylene, Stainless Steel

Scotch-Grip® is a registered trademark of the 3M Company.

Part No. 287301 Pressure Cup (2 Quart)



Ref.	Part No.	Description	Qty	Ref. No.	Part No.	Description	Qty
No.	1 alt 110.	Description	Qty	10	116903	REGULATOR, air	1
1	287302	CUP, pressure 2 qt.	1	11	104655	GAUGE, pressure, air, cup	1
2	111804	REGULATOR, air, gun	1	12	110440	TEE, branch, male, 1/8 npt	1
3	110436	GAUGE, pressure, air	1	13	189557	RESTRICTOR, air, regulator	1
4	156971	NIPPLE, short	1	14	115671	FITTING, connector, male	1
5	183696	FITTING, tee	1	15	100133	WASHER, lock	1
6	112698	ELBOW, male, swivel	2	16	112788	SCREW, cap, socket hd	4
7	114320	FITTING, connector, female, 1/8 npt	1	21	117243	FITTING, adapter, 1/8 x 1/8 nptf	1
8	054720	TUBE, polyurethane,	0.830	22	100340	NUT	1
			ft.	23	15F346	GASKET, 2-qt, CV-75	1
9	198783	BRACKET, pressure cup. 2 at.	1			•	

Technical Data (Model 287301)

Category	Data
Maximum Working Fluid Pressure	50 psi (0.35 MPa, 3.5 bar)
Air inlet fitting	1/4 npt(m)
Diameter	5.25 in. (133 mm)
Overall Height	17.75 in. (451 mm)
Weight	4 lb (1.8 kg)
Wetted Parts	Nylon, Aluminum, Polyethylene, Stainless Steel

Scotch-Grip® is a registered trademark of the 3M Company.

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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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