Pressure Cups

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
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.

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.

**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.

**WARNING**

**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.
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

One Quart Pressure Cup

Two Quart Pressure Cup

Fig. 1. Typical Installation
Operation

One Quart Pressure Cup

1. 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.

5. 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.

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**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.

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**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.

1. On electrostatic guns only, turn the ES ON/OFF valve OFF.
Operation

Two Quart Pressure Cup

1. 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.

6. 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

1. Relieve the pressure, page 4.

2. Push the clamp lever (3b) to the unclamped position, against the yoke. See Fig. 2.

3. Twist the lid counterclockwise to disengage it. Remove the lid.

4. Clean the lid and the cup, using a compatible solvent.

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

CAUTION

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.

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.
Cleaning

Two Quart Pressure Cup

1. 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.

CAUTION

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.

CAUTION

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)
### Technical Data (Model 244731)

<table>
<thead>
<tr>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Working Fluid Pressure</td>
<td>20 psi (0.14 MPa, 1.4 bar)</td>
</tr>
<tr>
<td>Air inlet fitting</td>
<td>1/4 npt(m)</td>
</tr>
<tr>
<td>Diameter</td>
<td>5.25 in. (133 mm)</td>
</tr>
<tr>
<td>Overall Height</td>
<td>17.75 in. (451 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>4 lb (1.8 kg)</td>
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<tr>
<td>Wetted Parts</td>
<td>Nylon, Aluminum, Polyethylene, Stainless Steel</td>
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</table>

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Part No. 287301 Pressure Cup (2 Quart)
### Parts

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<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
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<td>4</td>
<td>156971</td>
<td>NIPPLE, short</td>
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<td>ELBOW, male, swivel</td>
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<td>23</td>
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<td>GASKET, 2-qt, CV-75</td>
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### Technical Data (Model 287301)

**Category**
- Maximum Working Fluid Pressure
- Air inlet fitting
- Diameter
- Overall Height
- Weight
- Wetted Parts

**Data**
- 50 psi (0.35 MPa, 3.5 bar)
- 1/4 npt(m)
- 5.25 in. (133 mm)
- 17.75 in. (451 mm)
- 4 lb (1.8 kg)
- Nylon, Aluminum, Polyethylene, Stainless Steel

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

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