2.5 Gallon Pressure Tank

(Non-ASME Design)

For low-pressure painting and coating applications requiring portability, small batches, or frequent color changes

50 psi (350 kPa, 3.5 bar) Maximum Working Pressure

Model 24A555, Series A (shown)
Basic portable pressure tank

Model 24A557, Series A
with dual regulators

Important Instructions
Read all warnings and instructions in this manual.
Save these instructions.
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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 symbol refers to procedure-specific risk. Refer back to these warnings. Additional, product-specific warnings may be found 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. 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 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.

**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 manuals. Read fluid and solvent 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 regulations.

**PRESSURIZED EQUIPMENT HAZARD**

Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.

- 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.

**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.

- Read MSDS's to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.
- Always wear impervious gloves when spraying or cleaning equipment.
Installation

Grounding

The equipment must be grounded. Grounding reduces the risk of static and electric shock by providing an escape wire for the electrical current due to static build up or in the event of a short circuit.

**Pump:** connect the ground wire (A) firmly to a metal part of the tank such as the swivel (B) at the base of the regulator. Connect the other end of the wire to a true earth ground. See Fig. 1. Order Part No. 237569 Ground Wire and Clamp.

**Air compressor:** follow manufacturer’s recommendations.

**Object being sprayed:** follow local code.

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**WARNING**

**PRESSURIZED ALUMINUM PARTS HAZARD**

Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment. Such use can cause serious chemical reaction and equipment rupture, and result in death, serious injury, and property damage.

**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

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**Solvent pails used when flushing:** follow local code. Use only conductive metal pails, placed on a grounded surface. Do not place the pail on a nonconductive surface, such as paper or cardboard, which interrupts grounding continuity.

**To maintain grounding continuity when flushing or relieving pressure:** hold metal part of the spray gun firmly to the side of a grounded metal pail, then trigger the gun.

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**Fig. 1: Ground the equipment**
Setup

- **Single-Regulated Tank (Model 24A555):** When the air pressure to the tank and the spray gun atomizing air are controlled by one regulator, regulated air controls the tank pressure and unregulated air is supplied to the spray gun. See Fig. 3.

- **Dual-Regulated Tank (Model 24A557):** For separate control of the atomizing air, a separate atomizing air regulator for the tank is supplied. See Fig. 4.

**NOTICE**

Use thread sealant on all male threads.

1. Install an air filter upstream from the regulator to remove dirt and moisture from your air supply.

2. Screw the handle (B) and the nut (C) onto the cover, and tighten them securely.

3. Screw the riser tube (E) into the pipe fitting on the bottom side of the tank cover. See Fig. 2.

4. Screw the swivel union (2) into the port marked AIR on the tank cover.


6. Screw the assembled regulator into the swivel union (2).

7. Connect an air supply hose to the 1/4 npt air inlet fitting (9c-1). Connect the gun’s air atomizing hose to fitting (9c-2). See Fig. 3 for single-regulated tanks. See Fig. 4 for dual-regulated tanks.

8. Connect the gun’s fluid hose to the adapter (D) at the point marked PAINT. See Fig. 2.

9. Connect the air atomizing and fluid hoses to the gun. See Fig. 2.
Operation

Pressure Relief Procedure

Pressure tanks remain pressurized until pressure is manually relieved.

1. Shut off the air supply to the tank.
2. Lift the pressure relief valve ring (1b) to open it. See Fig. 5.
3. When no air is escaping through the valve, unscrew the wing nuts and remove the tank cover (H).
4. Leave the pressure relief valve open until you have reinstalled the cover.

Fill the Tank

1. Follow the manufacturer's recommendations to prepare the paint or other coating. Strain the paint to remove particles or sediment that could clog the spray gun and hose.
2. Follow Pressure Relief Procedure (above).
3. Unscrew the wing nuts and remove the cover (H).
4. Fill the tank with the paint. Leave at least 2 in. (51 mm) between the paint level and the tank cover. A one gallon paint can may be placed inside the pressure tank.
5. Install the tank cover and evenly hand tighten the wing nuts. Overtightening the nuts may cause the gasket (1c) to squeeze out. The gasket is needed to properly seal the cover and tank.

Adjust the Air Regulators

To reduce the risk of overpressurizing the tank, which could result in component rupture and cause serious injury, never exceed 50 psi (350 kPa, 3.5 bar) maximum air input pressure to the tank.

Turn the air regulator T handle counterclockwise all the way to off. Turn on the master air supply. Adjust the air regulators to the required pressure. Always use the lowest pressure necessary to obtain the desired results. Lower pressures help reduce spray tip wear.

Vertical and Horizontal Reach

Do not operate the spray gun more than 10 ft (3.1 m) above the paint tank. Longer lengths of air and paint hose may be used between the pressure tank and the spray gun for greater horizontal working range.
Cleaning and Maintenance

1. Follow the **Pressure Relief Procedure**, page 6.

2. Unscrew the wing nuts and remove the cover (H).

3. Loosen the retaining ring of the spray gun air cap about three turns.

4. Hold a rag over the air cap and trigger the gun to force the paint back through the hose and into the tank.

5. Empty the tank.

6. Pour a compatible solvent into the tank.

7. Replace the cover and tighten the wing nuts evenly and securely. Keep the wing nuts well greased so they will screw down freely.

8. Remove the spray gun air cap.

9. Turn on the air supply. Trigger the gun into a waste container until clean solvent comes from the gun.

10. Empty the solvent and wipe the inside of the tank and equipment with a solvent-dampened rag.

11. Remove the riser tube (E) and clean it thoroughly.

12. Keep the pressure relief valve (1b) clean and in working order. The relief valve is preset and locked to release air automatically if pressure exceeds 50 psi (350 kPa, 3.5 bar).

**NOTICE**

Be sure the solvent you use is compatible with the fluid being sprayed and the hose material.

If paint comes in contact with the pressure relief valve, remove and clean the valve thoroughly. If the valve still doesn't work properly, replace it with a new one. **Do not try to reset the valve.**

**Technical Data**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank capacity</td>
<td>2.5 gallons (9.5 liters)</td>
</tr>
<tr>
<td>Maximum working pressure</td>
<td>50 psi (350 kPa, 3.5 bar)</td>
</tr>
<tr>
<td>Pressure relief valve setting</td>
<td>50 psi (350 kPa, 3.5 bar)</td>
</tr>
<tr>
<td>Air inlet size</td>
<td>1/4 npt(m)</td>
</tr>
<tr>
<td>Fluid outlet size</td>
<td>3/8 npsm(m)</td>
</tr>
<tr>
<td>Air outlet size</td>
<td>1/4 npt(m)</td>
</tr>
<tr>
<td>Height</td>
<td>21 in. (533 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>11 lb (5 kg)</td>
</tr>
<tr>
<td>Wetted parts</td>
<td>Aluminum, brass, steel, buna-n, polyethylene</td>
</tr>
</tbody>
</table>
### Parts

**Model 24A555, Pressure Tank with Single Regulator**

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>-----</td>
<td>BARE PRESSURE TANK, includes items 1a-1c</td>
<td>1</td>
</tr>
<tr>
<td>1a</td>
<td>112077</td>
<td>TANK LINER, low density polyethylene (not shown)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>112078</td>
<td>5 pack of tank liners</td>
<td>1</td>
</tr>
<tr>
<td>1b</td>
<td>103996</td>
<td>VALVE, pressure relief; 50 psi (350 kPa, 3.5 bar)</td>
<td>1</td>
</tr>
<tr>
<td>1c</td>
<td>244953</td>
<td>GASKET, cover, polyethylene (package of 3)</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>156823</td>
<td>UNION, swivel</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>U10004</td>
<td>REGULATOR ASSEMBLY, includes items 9a-9d</td>
<td>1</td>
</tr>
<tr>
<td>9a</td>
<td>8220</td>
<td>GAUGE, air pressure, 0–100 psi (0 to 700 kPa, 0–7 bar)</td>
<td>1</td>
</tr>
<tr>
<td>9b</td>
<td>1610</td>
<td>AIR REGULATOR, see manual 310605 for parts</td>
<td>1</td>
</tr>
<tr>
<td>9c</td>
<td>9993</td>
<td>FITTING, air inlet, 1/4 npt x 1/4 npt straight</td>
<td>3</td>
</tr>
<tr>
<td>9d</td>
<td>119030</td>
<td>FITTING, reducer, 3/8 npt(m) x 1/4 npt(f)</td>
<td>1</td>
</tr>
</tbody>
</table>

----- Part is not sold separately.
Model 24A557, Pressure Tank with Dual Regulators

Part No/Description

Ref. No. | Part No. | Description | Qty. | Ref. No. | Part No. | Description | Qty. |
--- | --- | --- | --- | --- | --- | --- | --- |
1 | ----- | BARE PRESSURE TANK, includes items 1a-1c | 1 | 9 | U10004 | REGULATOR ASSEMBLY, includes items 9a-9d | 1 |
| 1a | 112077 | TANK LINER, low density polyethylene (not shown) | 1 | 9a | 8220 | GAUGE, air pressure, 0–100 psi (0-700 kPa, 0–7 bar) | 1 |
| 1b | 103996 | VALVE, pressure relief; 50 psi (350 kPa, 3.5 bar) | 1 | 9b | 1610 | AIR REGULATOR, see manual | 1 |
| 1c | 244953 | GASKET, cover, polyethylene (package of 3) | 1 | 9c | 9993 | FITTING, air inlet, 1/4 npt x 1/4 npt straight | 3 |
| 2 | 156823 | UNION, swivel | 1 | 9d | 119030 | FITTING, reducer, 3/8 npt(m) x 1/4 npt(f) | 1 |
| 9a | 8230 | PRESSURE GAUGE | 1 | 9e | 157350 | ADAPTER, 3/8 npt x 1/4 npt | 1 |
| 9b | 1630 | AIR REGULATOR, see manual | 1 | 9f | 310605 for parts | |
| 9c | 90028 | PLUG, regulator | 1 | 9g | 310605 for parts | |

----- Part is not sold separately.

Note: For single regulator use, replace fitting 9e with fitting 9c from regulator 9f.
Sharpe 1 Year Limited Warranty

Sharpe warrants this product to the original user against defective material or workmanship for a period of 1 year from the date of purchase.

Sharpe reserves the right to determine whether the part or parts failed because of defective material, workmanship, or other causes. Failures caused by accident, alteration, or misuse are not covered by this warranty.

Sharpe, at its discretion, will repair or replace products covered under this warranty free of charge. Repairs or replacements of products covered under this warranty are warranted for the remainder of the original warranty period.

Sharpe or its authorized service representatives must perform all warranty repairs. Any repair to the product by unauthorized service representatives voids this warranty. The rights under this warranty are limited to the original user and may not be transferred to subsequent owners.

This warranty is in lieu of all other warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose. Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitations may not apply to you.

Sharpe Information

TO PLACE AN ORDER, contact your SHARPE distributor or call 1-800-742-7731 or visit our website at www.sharpe1.com.

Product Registration

Thank you for the purchase of your Sharpe® product. We greatly appreciate your business.

Important reasons to register your product:

• Registration enables Sharpe to notify you if there is a problem with your product.

• Improved Product Development - Your input helps us continue to design products that meet your needs.

For the most up-to-date information and to register your product, please go to www.sharpe1.com and click on “Register Product.”