To convert a Pro Xp™ Electrostatic Air Spray Gun to a round spray pattern. For professional use only.

**Important Safety Instructions**
Read all warnings and instructions in this manual and in your Pro Xp Electrostatic Air Spray Gun manual. *Save these instructions.*

100 psi (0.7 MPa, 7.0 bar) Maximum Fluid Working Pressure

100 psi (0.7 MPa, 7.0 bar) Maximum Air Working Pressure

See page 4 for part numbers. Gun is not included.
**Installation**

To reduce the risk of injury, follow the **Pressure Relief Procedure** in your Pro Xp manual before installing this kit.

1. Flush the gun as instructed in your gun manual. Relieve the pressure.
2. Remove the retaining ring and air cap.

   **NOTICE**

   Trigger the gun while removing the nozzle to help drain the gun and prevent any paint or solvent left in the gun from entering the air passages.

3. Trigger the gun while removing the fluid nozzle.

   **NOTICE**

   Use non-silicone grease, Part No. 111265, on the small o-ring (4b). Do not over-lubricate. Do not lubricate the conductive contact ring (4a).

4. Make sure the conductive contact ring (4a) and the small o-ring (4b) are in place on the round spray nozzle (4). Lightly lubricate the small o-ring (4b).

5. Make sure the electrode needle is finger-tight.

6. Trigger the gun while installing the fluid nozzle (4) with the multi-tool provided with the gun. Tighten until the fluid nozzle seats in the gun barrel (1/8 to 1/4 turn past hand-tight).

7. Install the round spray diffuser (49) and air cap (5). Reinstall the retaining ring (6).

   **NOTE:** Items marked with a ★ are shown for reference and are not included in the kit.

![Figure 1 Round Spray Air Cap, Diffuser, and Nozzle](image)
8. Place a wrench on the flats of the air adjustment valve housing and unscrew the valve from the gun.

9. Screw the new air adjustment valve (30) into the gun, using a wrench on the flats of the valve housing. Torque to 15 in-lb (1.7 N•m).

Figure 2 Fan Air Adjustment Valve

10. Place a wrench on the flats of the atomizing air restrictor valve housing and unscrew the valve from the gun.

11. Screw the new atomizing air restrictor valve (29) into the gun, using a wrench on the flats of the valve housing. Torque to 15 in-lb (1.7 N•m).

Figure 3 Atomizing Air Restrictor Valve

12. Test the gun resistance as instructed in your gun manual.
**Parts**

NOTE: Items marked with a ★ are shown for reference and are not included in the kit.

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>24N729</td>
<td>NOZZLE, round spray</td>
<td>1</td>
</tr>
<tr>
<td>4a</td>
<td>24N645</td>
<td>O-RING, conductive</td>
<td>1</td>
</tr>
<tr>
<td>4b</td>
<td>111507</td>
<td>O-RING; fluoroelastomer</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>24N731</td>
<td>AIR CAP, round spray</td>
<td>1</td>
</tr>
<tr>
<td>29</td>
<td>24N733</td>
<td>ATOMIZING AIR RESTRICTOR VALVE, round spray</td>
<td>1</td>
</tr>
<tr>
<td>30</td>
<td>24N732</td>
<td>FAN AIR ADJUSTMENT VALVE, round spray</td>
<td>1</td>
</tr>
<tr>
<td>49</td>
<td>24N730</td>
<td>DIFFUSER, round spray</td>
<td>1</td>
</tr>
</tbody>
</table>
### Performance Chart

#### Key

<table>
<thead>
<tr>
<th>Fluid Viscosity</th>
<th>Chart</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy viscosity; 30 sec, #3 Zahn</td>
<td><a href="#">Chart</a></td>
</tr>
<tr>
<td>Medium viscosity; 30 sec, #2 Zahn</td>
<td><a href="#">Chart</a></td>
</tr>
<tr>
<td>Light viscosity; 18 sec, #2 Zahn</td>
<td><a href="#">Chart</a></td>
</tr>
</tbody>
</table>

### Air Flow Adjustment

In most applications using the round spray kit, it is desirable to use a very low air flow through the air cap while maintaining enough pressure at the gun inlet for full electrostatic power (about 40 psi [0.3 MPa, 2.8 bar]). Use the gun’s atomizing air restrictor valve to restrict the air cap air. The fan air adjustment valve can be used to adjust the pattern size from 4 to 8 in. (102 to 204 mm).

**NOTE:** The round spray kit is not recommended for flow rates greater than 7 oz/min (210 cc/min).
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.

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For the latest information about Graco products, see www.graco.com.

To place an order, contact your Graco Distributor or call to identify the nearest distributor.

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

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 3A2498

Graco Headquarters: Minneapolis

International Offices: Belgium, China, Japan, Korea

GRACO INC. AND SUBSIDIARIES • P.O. BOX 1441 • MINNEAPOLIS, MN 55440-1441 • USA

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