Volumetric Fluid Flow Meter

High Pressure Meters
4000 psi (28 MPa, 276 bar) Maximum Working Fluid Pressure

G3000 Meter, Part No. 239716
0.02 to 1.0 gpm (75 to 3800 cc/min.) Flow Range

G3000HR Meter, Part No. 244292
0.01 to 0.5 gpm (38 to 1900 cc/min.) Flow Range

Low Pressure Meters
250 psi (1.72 MPa, 17.2 bar) Maximum Working Fluid Pressure

G250 Meter, Part No. 249426
0.02 to 1.0 gpm (75 to 3800 cc/min.) Flow Range

G250HR Meter, Part No. 249427
0.01 to 0.5 gpm (38 to 1900 cc/min.) Flow Range

Recognized Component
Conforms to ANSI/UL standard 2279
Certified to CAN/CSA 22.2 No. E79–11–95
EEex II A T3
ITSO3ATEX21212

Intrinsically Safe for Hazardous Locations (Class I; Division 1; Group D) when used with an approved barrier only.

* CE mark approvals only apply to meters used as part of Graco ProMix and PrecisionMix II Systems.
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Symbols

Warning Symbol

⚠️ WARNING

This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.

Caution Symbol

⚠️ CAUTION

This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the instructions.
**WARNING**

**SKIN INJECTION HAZARD**
Spray from leaks, or ruptured components can inject fluid into your body and cause extremely serious injury, including the need for amputation. Splashing fluid in the eyes or on the skin can also cause serious injury.

- Fluid injected into the skin might look like just a cut, but it is a serious injury. **Get immediate surgical treatment.**
- Do not stop or deflect fluid leaks with your hand, body, glove, or rag.
- Follow the **Pressure Relief Procedure** on page 6 whenever you: are instructed to relieve pressure; stop operation; or clean, check, or service the equipment.
- Tighten all the fluid connections before operating the equipment.
- Check the hoses, tubes, and couplings daily. Replace worn, damaged, or loose parts immediately.

**FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD**
Improper grounding, poor air ventilation, open flames, or sparks can cause a hazardous condition and result in fire or explosion and serious injury.

- Ground the equipment as instructed in **Grounding**, page 5.
- Never use the flow meter with an electrostatic gun isolation stand.
- Keep liquids away from the electronic sensor device.
- Follow the material supplier recommendations when flushing or servicing the meter.
- Do not service the electronic sensor. Return it to your Graco distributor for service.
- If there is any static sparking while using the equipment, **stop spraying immediately**. Identify and correct the problem.

**EQUIPMENT MISUSE HAZARD**
Equipment misuse can cause the equipment to rupture, malfunction, or start unexpectedly and result in serious injury.

- This equipment is for professional use only.
- Read all instruction manuals, tags, and labels before operating the equipment.
- Use the equipment only for its intended purpose. If you are uncertain about usage, call your Graco distributor.
- Do not alter or modify this equipment. Use only genuine Graco parts and accessories.
- Check the equipment daily. Repair or replace worn or damaged parts immediately.
- Do not exceed the maximum working pressure of the lowest rated system component. This equipment has a **4000 psi (28 MPa, 276 bar) maximum working pressure**.
- Use fluids or solvents that are compatible with the equipment wetted parts. See the **Technical Data** section of all the equipment manuals. Read the fluid and solvent manufacturer’s warnings.
- Comply with all applicable local, state and national fire, electrical and other safety regulations.
### Installation

#### WARNING

**FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD**

To reduce the risk of fire, explosion, or electric shock:

- All electrical equipment must only be installed by a qualified electrician.
- Understand and follow your local code and safety regulations for hazardous location wiring of intrinsically safe circuits.

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**Dust and Foreign Matter**

Avoid having dust or foreign matter enter the flow meter by taking the following precautions:

- Thoroughly flush the fluid supply lines before installing the flow meter.
- When installing fittings, make sure that no sealing tape overlaps into the inside of the pipe.
- Install a 100 mesh fluid filter upstream of the flow meter.

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**Installing the Flow Meter**

- Flow volume can only be measured at the location where the flow meter is installed.
- The Fluid Flow Meters are intrinsically safe for Class I; Division 1; Group D hazardous indoor (NEMA 1) locations when installed with an intrinsically safe power device and wiring.

Refer to ANSI standards ISA-RP12.6, NEC Article 504 and the Canadian Electrical Code Appendix F.

- Do not use more than 200 ft. (61 m) of cable.
- Refer to Fig. 1 to locate and install the flow meter, connectors, and fluid shutoff valves. Install a check valve to prevent backflow. The arrows on the flow meter and check valve show the direction of fluid flow.
- The shutoff valves allow you to isolate the meter for service.
- Refer to the Technical Data and Dimensional Drawings for dimension, inlet/outlet size, temperature and other specifications.

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**Fig. 1**

[Diagram of Flow Meter Installation]

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G3000 and G3000HR shown
Installation

Grounding

WARNING

FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD
Proper electrical grounding of your system is essential. For your safety, read the warning section, FIRE, EXPLOSION, OR ELECTRIC SHOCK HAZARD, on page 3.

1. Ground the flow meter by connecting a grounded cable to the sensor.

Have a qualified electrician check the electrical grounding continuity between the flow meter sensor and a true earth ground; remove the cable connector from the sensor and measure the resistance from the cable connector Pin B to true earth ground. Refer to Fig. 2.

If the resistance is greater than 25 ohms, check the cable ground connection. Refer to Fig. 2. Reconnect the ground sheath or replace the cable. Do not operate the system until the problem is corrected.

2. Always ground the fluid supply unit, using one of the following options:
   a. Mount the meter to a grounded conductive surface, or
   b. Connect the conductive fluid hose to the meter inlet and outlet, or
   c. Connect a ground wire to the meter’s M6 mounting holes.

3. Never use the flow meter with an electrostatic gun isolation stand.

Cable Connector (Solder Side)

| A | +10–30 Vdc Supply (red) |
| B | Ground (black)         |
| C | Signal Out (white)     |

Fig. 2
Operation

Pressure Relief Procedure

⚠️ WARNING
INJECTION HAZARD
The system pressure must be manually relieved to prevent the system from starting or spraying accidentally. Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the Pressure Relief Procedure whenever you:
● are instructed to relieve the pressure,
● stop spraying,
● check or service any of the system equipment.

1. Turn off the fluid supply to the meter.
2. Shut off all electrical power to the fluid system.
3. Follow the Pressure Relief Procedure for your fluid system dispensing device.

Flow Meter Function

This is a positive displacement, gear flow meter. The gear flow meter is highly accurate, even with low flow rates. The fluid flowing through the meter rotates the gears. The gear tooth is picked up by a sensor device, which produces an impulse for every gear tooth passing by.

Recommended Usage

⚠️ WARNING
COMPONENT RUPTURE HAZARD
Do not exceed the maximum working pressure of your meter or any component or accessory in your system.

- See the Technical Data for fluid and ambient temperature limits.
- Only use the flow meter with fluids that are compatible with the “Wetted Parts” listed in the Technical Data.

Flow Volume Range

The G3000 and G250 meters flow volume range is 0.02–1.0 gal./min. (75–3800 cc/min.).

The G3000HR and G250HR meters flow volume range is 0.01–0.5 gal./min. (38–1900 cc/min.).

⚠️ CAUTION
The flow meter gears and bearings can be damaged if they rotate at too high a speed. To avoid high speed rotation, open the fluid valve gradually. Do not over-speed the gear with air or solvent. To prolong meter life, Do not use the meter above its maximum flow rate.

Checking the Meter Accuracy

1. To check the accuracy of the meter, turn your gun fan and atomizing air off, then trigger the fluid into a graduated cylinder; dispense at least 500 cc of fluid.

2. Measure the volume of fluid in the beaker in cubic-centimeters (cc) and read the volume on the flow meter monitor.

   G3000 and G250: If the flow meter scale factor is not between 0.112–0.140 cc/pulse, follow the cleaning procedure on page 9, then recalibrate the flow meter.

   G3000HR and G250HR: If the flow meter scale factor is not between 0.05–0.07 cc/pulse, follow the cleaning procedure on page 9, then recalibrate the flow meter.
### Troubleshooting

**WARNING**

**INJECTION HAZARD**
To reduce the risk of an injection injury or other serious injury, follow the Pressure Relief Procedure on page 6 before checking or servicing the meter assembly.

**NOTE:** The sensor is not a serviceable part. Replace it if it is malfunctioning.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No flow volume displayed at monitoring unit</td>
<td>Flow volume is too low to measure</td>
<td>Increase flow volume.</td>
</tr>
<tr>
<td>Fluid is not flowing</td>
<td>See Problem: Fluid is not flowing, below.</td>
<td></td>
</tr>
<tr>
<td>Damaged cable</td>
<td>Replace cable.</td>
<td></td>
</tr>
<tr>
<td>Improper input voltage to sensor</td>
<td>Make sure input power is 10–30 Vdc.</td>
<td></td>
</tr>
<tr>
<td>Damaged sensor</td>
<td>Replace sensor if it is malfunctioning.</td>
<td></td>
</tr>
<tr>
<td>Fluid is not flowing</td>
<td>Clogs in fluid line or in meter</td>
<td>Clean fluid line and/or meter; see Maintenance section.</td>
</tr>
<tr>
<td>Gears worn or damaged</td>
<td>Service meter; see Maintenance section.</td>
<td></td>
</tr>
</tbody>
</table>
**Maintenance**

**WARNING**

**FIRE AND EXPLOSION HAZARD**

If the meter is not installed in an intrinsically safe installation, make sure the power is off or the electronic sensor is disconnected before wiping the outside of the meter clean with a cloth dampened in a compatible solvent or flushing the meter.

**CAUTION**

Do not immerse the meter in solvent with the electronic sensor installed. Solvent could damage the electrical components.

Air purge is not recommended for any gear-type flow meter. Air purges do not provide the lubrication the meter gears require.

**Residue Build-up on the Meter Gears**

Residue build-up may cause the meter gears to bind or stop rotating, which decreases the meter accuracy and makes meter recalibration necessary. As more build-up occurs, recalibration is required more often.

The frequency that your meter requires cleaning depends on the type of fluid being used. Excessive residue build-up usually means that you are using improper cleaning solvents and/or cleaning sequences or processes.

- Check the meter routinely to develop the correct cleaning schedule.
- Use the proper cleaning solvent for the fluid being metered.

**Flushing the Meter**

**WARNING**

**INJECTION HAZARD**

To reduce the risk of an injection injury or other serious injury, follow the Pressure Relief Procedure on page 6 whenever you are instructed to relieve pressure.

Flush the fluid supply line and meter fluid reservoir daily with a compatible solvent as instructed below.

1. Follow the Pressure Relief Procedure, on page 6.
2. Connect the fluid line to the solvent supply unit.
3. Flush the meter until it is clean.
4. Follow the Pressure Relief Procedure, then disconnect the fluid line from the solvent supply unit.
5. Reconnect the fluid line to the fluid (paint) supply.
6. Turn on the fluid supply.
7. Operate until the meter and fluid line are free of solvent.

*Maintenance continued on next page.*
Cleaning or Servicing the Meter Chamber

**WARNING**

**INJECTION HAZARD**
To reduce the risk of an injection injury or other serious injury, follow the Pressure Relief Procedure on page 6 whenever you are instructed to relieve pressure.

**WARNING**

**FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD**
Installing and servicing this equipment requires access to parts that may cause electric shock or other serious injury if the work is not performed properly. Do not install or service this equipment unless you are trained and qualified.

Use only genuine Graco replacement parts. Substitution of components may impair intrinsic safety. This could result in a failure which causes serious injury and/or substantial property damage.

**NOTE:** Clean and service the meter at a clean workbench. Use only lint-free cloth on parts.

1. Follow the Pressure Relief Procedure, on page 6. Then close the fluid shut-off valve on each side of the meter.

2. Disconnect the cable from the electronic sensor device.

3. Disconnect both fluid line fittings and remove the meter from the fluid line.

4. Loosen the two screws and remove the electronic sensor device from the flow meter upper housing. See the parts drawing, page 10.

5. Loosen the screws. Keep a few threads of two opposing bolts engaged to minimize the torque stress on the shafts when you separate the meter housings.

6. Hold onto the upper housing and gently tap the opposing bolts to separate the lower housing.

**CAUTION**

To avoid damaging the shafts, keep the housings parallel to each other when separating them; do not rock the housings from side to side. Do not use chisels or screwdrivers to split and pry apart the housings.

7. Remove and inspect the gears and shafts. Clean the meter parts with solvent.

8. Reassemble the gears and shafts into the lower housing in the position they were removed from. Check the gears for free and easy rotation.

9. Make sure the two locating pins are in place.

10. Assemble the two meter housings, making sure to keep them parallel to each other.

11. Install the screws. Tighten them oppositely and evenly, to 12 ft-lb (16 N·m). Do not over-tighten.

12. After re-assembling the meter, test the gear rotation by applying a brief air blast to the meter inlet. You should clearly hear the gears spin.

13. Set the electronic sensor on the upper housing and tighten the two screws hand-tight, about 3.5 ft-lbs (4.7 N·m). Do not over-tighten.
**Parts**

*Use Only Genuine Graco Parts and Accessories*

**Model G3000**  
**Part No. 239716**

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<tr>
<th>Ref. No.</th>
<th>Part No.</th>
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<td>ELECTRONIC SENSOR; includes item 2a</td>
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<td>290580</td>
<td>LABEL, identification</td>
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<td>4</td>
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<td>SCREW</td>
<td>12</td>
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<td>5</td>
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<td>* HOUSING, upper</td>
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<tr>
<td>7</td>
<td>110588</td>
<td>O-RING; PTFE</td>
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<td>9</td>
<td>192383</td>
<td>SHAFT, gear</td>
<td>2</td>
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<tr>
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<td>192387</td>
<td>PIN, locating</td>
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<tr>
<td>11</td>
<td></td>
<td>HOUSING, lower</td>
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*Not a replacement part. Order item 3, gear meter assembly.*
# Parts

*Use Only Genuine Graco Parts and Accessories*

## Model G3000HR
Part No. 244292

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<th>Description</th>
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<td>8</td>
<td>244290</td>
<td>• GEAR</td>
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<tr>
<td>2</td>
<td>239717</td>
<td>ELECTRONIC SENSOR; includes item 2a</td>
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<td>9</td>
<td>197142</td>
<td>• SHAFT, gear</td>
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<tr>
<td>2a</td>
<td>290580</td>
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<td>• PIN, locating</td>
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<td>4</td>
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*Not a replacement part. Order item 3, gear meter assembly.*
Parts

Use Only Genuine Graco Parts and Accessories

Model G250
Part No. 249426

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<td>HOUSING, lower</td>
<td>1</td>
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<tr>
<td>4</td>
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<td>PACKING, o–ring</td>
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<td>21</td>
<td>SENSOR</td>
<td>1</td>
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## Parts

*Use Only Genuine Graco Parts and Accessories*

### Model G250HR
Part No. 249427

<table>
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<th>Description</th>
<th>Qty.</th>
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<td>249430</td>
<td>SENSOR</td>
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</tr>
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</table>

![Diagram of Model G250HR parts](image_url)
Dimensions

G3000 and G3000HR
Part No. 239716 and 244292

Flow Meter Mounting Holes
(BOTTOM VIEW)

Dimensions

G3000 and G3000HR
Part No. 239716 and 244292

Flow Meter Mounting Holes
(BOTTOM VIEW)

G250 and G250HR
Part No. 249426 and 249427

Flow Meter Mounting Holes
(BOTTOM VIEW)
## Technical Data

<table>
<thead>
<tr>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Working Fluid Pressure</td>
<td>G3000 and G3000H 4000 psi (28 MPa, 276 bar)</td>
</tr>
<tr>
<td></td>
<td>G250 and G250HR 250 psi (1.72 MPa, 17.2 bar)</td>
</tr>
<tr>
<td>Flow Range</td>
<td>G3000 and G250: 0.02–1.0 gal/min (75–3800 cc/min)</td>
</tr>
<tr>
<td></td>
<td>G3000HR and G250HR: 0.01–0.5 gal/min (38–1900 cc/min)</td>
</tr>
<tr>
<td>Fluid Temperature Range</td>
<td>40–180° F (4–80° C)</td>
</tr>
<tr>
<td>Maximum Ambient Temperature</td>
<td>180° F (80° C)</td>
</tr>
<tr>
<td>Fluid Viscosity Range</td>
<td>20–3000 cps (Refer to Pressure Drop Curve)</td>
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<tr>
<td>Maximum Cable Length</td>
<td>200 ft (61 m)</td>
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<tr>
<td>Flow Meter Inlet/Outlet</td>
<td>1/4 npt(f)</td>
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</table>

<table>
<thead>
<tr>
<th>Category</th>
<th>Data</th>
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</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>$G_{3000}$ and $G_{250} = 0.119$ cc/pulse</td>
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<tr>
<td></td>
<td>$G_{3000/hr}$ and $G_{250/hr} = 0.061$ cc/pulse</td>
</tr>
<tr>
<td>Accuracy</td>
<td>$\pm 0.5%$*</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>10–30 Vdc</td>
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<tr>
<td>Intrinsic Safety</td>
<td>Class 1; Div. 1; Group D</td>
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<tr>
<td></td>
<td>$V_{max.} = 30$ V</td>
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<tr>
<td></td>
<td>$I_{max.} = 15$ mA</td>
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<tr>
<td></td>
<td>$C_i = 0.2$ microfarads</td>
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<tr>
<td></td>
<td>$L_i = 0$ mH</td>
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<tr>
<td>Approvals</td>
<td>See front cover</td>
</tr>
<tr>
<td>Wetted Parts</td>
<td>303 Stainless Steel, Tungsten Carbide, PTFE</td>
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</tbody>
</table>

* For most commonly used coatings, the flow meter reading will be accurate to within $\pm 0.5\%$. Accuracy will diminish at low viscosities and low flow rates.
Pressure Drop Curve
Graco Standard Warranty

Graco warrants all equipment 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.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

Graco makes no warranty, and disclaims all implied warranties of merchantability and fitness for a particular purpose in connection with accessories, equipment, materials or components sold but not manufactured by Graco. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

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

The parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English. Les parties reconnaissent avoir convenu que la rédaction du présent document sera en Anglais, ainsi que tous documents, avis et procédures judiciaires exécutés, donnés ou intentés à la suite de ou en rapport, directement ou indirectement, avec les procedures concernées.

Graco Information

TO PLACE AN ORDER, contact your Graco distributor, or call one of the following numbers to identify the distributor closest to you:
1–800–328–0211 Toll Free
612–623–6921
612–378–3505 Fax

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.

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PRINTED IN U.S.A. 308778 09/1997 Revised 12/2005