Air Actuated Dispense Valve

To dispense plural component fluids and solvents with a ProMix® proportioner. For professional use only.

Part No. 15X303, 26A355
High Pressure Dispense Valve
3000 psi (21 MPa, 207 bar) Maximum Fluid Working Pressure
100 psi (0.7 MPa, 7 bar) Maximum Air Working Pressure

Part No. 24T785
High Pressure Dispense Valve for Acid Catalyzed Materials
3000 psi (21 MPa, 207 bar) Maximum Fluid Working Pressure
100 psi (0.7 MPa, 7 bar) Maximum Air Working Pressure

Part No. 26A313
High Pressure Dump Valve for Acid Catalyzed Materials
3000 psi (21 MPa, 207 bar) Maximum Fluid Working Pressure
100 psi (0.7 MPa, 7 bar) Maximum Air Working Pressure

Part No. 15X304, 26B108
Low Pressure Dispense Valve
300 psi (2.1 MPa, 21.0 bar) Maximum Fluid Working Pressure
100 psi (0.7 MPa, 7 bar) Maximum Air Working Pressure

Important Safety Instructions
Read all warnings and instructions in this manual and in your proportioning system manual before using the equipment.
Save all instructions.
Related Manuals

See the following manuals for additional information on the dispense valves.

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<th>Description</th>
</tr>
</thead>
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<td>312775</td>
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<td>ProMix 2KS Manual System Operation</td>
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<td>332562</td>
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<td>3A2800</td>
<td>ProMix PD2K Manual System with Advanced Display Module Repair-Parts</td>
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<td>ProMix PD2K Dosing Pumps</td>
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<tr>
<td>312781</td>
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</tr>
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<td>312786</td>
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<td>312787</td>
<td>Color Change Module Kits for ProMix 2KS or ProMix 3KS Electronic Proportioners</td>
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<tr>
<td>332455</td>
<td>Color Change Kits for ProMix PD2K Electronic Proportioners</td>
</tr>
<tr>
<td>3A8637</td>
<td>IniFlex™, Instructions-Parts</td>
</tr>
</tbody>
</table>
Installation

The top installation in Fig. 2 shows the dispense valves installed in an electronic 2-component proportioning system. In this example, the dispense valves are used as dose valves for components A and B (DVA, DVB), an air purge valve (APV), and a solvent purge valve (SPV).

The bottom installation in Fig. 2 shows the IniFlex valves installed in an electronic 2-component proportioning system. In this example, the valves are used as color change valves (CCV), flush valves A and B (FVA, FVB), an air purge valve (APV), and a solvent purge valve (SPV).

Fig. 3 shows a pneumatic schematic of a complete 2-component proportioning system, in which the dispense valves are also used as A and B dump valves, and color change valves.

NOTE: See manual 332339 for instructions on how to install the dispense valves in a ProMix® PD2K Electronic Positive Displacement Proportioning System.

Connect the Air Lines

Clean all lines and connections of dirt, burrs, etc., and blow them out with clean air before connecting them to the system. The air supply line should contain an air filter to remove harmful dirt and moisture from the compressed air.

Use a normally closed 4-way air solenoid valve to control the dispense valve. Attach 5/32 in. (4 mm) OD air supply lines from the 4-way valve to the air inlets of the dispense valve.

Connect the Fluid Lines

Connect a grounded fluid line from the proportioner or meter to the 1/4 npt fluid inlet of the dispense valve adapter. See the IniFlex manual for connections in IniFlex configurations.

If fluid is supplied by a pump, install a fluid pressure regulator upstream of the dispense valve. A fluid regulator enables you to control fluid pressure more accurately than by regulating air pressure to the pump.

Install a fluid filter to remove particles and sediment which may clog the nozzle.

Accessories

Two accessories are required in your system: a bleed-type master air valve and a fluid drain valve.

The bleed-type master air valve is required only with air-powered pumps. It relieves air trapped between this valve and the pump after the air regulator is shut off. Trapped air can cause the pump to cycle unexpectedly. Locate the valve close to the pump.

The fluid drain valve helps relieve fluid pressure in the displacement pump, hose, and dispense valve; triggering the valve to relieve pressure may not be sufficient.

Grounding

Ground the pump and all other components used or located in the dispensing area. Check your local electrical code for detailed instructions for your area and type of equipment and be sure to ground all of these components.

• Fluid hoses: Use only electrically conductive hoses with a maximum of 500 feet (150 m) combined hose length to ensure grounding continuity.

• Dispense valve: Ground by connection to a properly grounded fluid hose and pump.
Installation

Components

15X303, 24T785, and 26A355 High Pressure Dispense Valves

5/32 in. (4 mm) OD air tube fitting, to close
5/32 in. (4 mm) OD air tube fitting, to open
Valve position sight port
Seal weep port and Lubrication Cup connection
TI11581A

15X304 Low Pressure Dispense Valve

Actuation indicator
Optional air open port
5/32 in. (4 mm) OD air tube fitting, to open
TI31156A

26A313 High Pressure Dump Valve

Vent port
Optional air open port
Valve position sight port
Seal weep port and Lubrication Cup connection
TI11663A

26B108 Low Pressure Iniflex Valve

Actuation indicator
5/32 in. (4 mm) OD air tube fitting, to open
TI34557A

Fig. 1. Valve Air Ports
Typical Installation

Iniflex ProMix 2KS configuration with Iniflex low pressure valves.

**Fig. 2: Typical Installation**

**Key:**

- **MA**: Component A Meter
- **DVA**: Component A Dose Valve
- **MB**: Component B Meter
- **DVB**: Component B Dose Valve
- **MS**: Solvent Meter
- **SPV**: Solvent Purge Valve
- **APV**: Air Purge Valve
- **ASL**: Component A Supply Line
- **BSL**: Component B Supply Line
- **APL**: Air Purge Line
- **SPL**: Solvent Purge Line
- **FVA**: Flush Valve A
- **FVB**: Flush Valve B
- **CCV**: Color Change Valve
System Pneumatic Schematic (used with ProMix 2KS)

Fig. 3. System Pneumatic Schematic
Operation

Settings and Adjustments

Set the actuating air to at least 75 psi (0.52 MPa, 5.2 bar) and start the pump. Adjust the pump speed and pressure to obtain the desired flow rate. Always use the lowest pump speed necessary to get the results you want.

To decrease needle travel, turn the cap (11; see pages 11, 12, and 14) clockwise; to increase, turn counterclockwise. The valve is factory set at one open turn. The maximum setting is four turns open.

Pressure Relief Procedure

Follow the Pressure Relief Procedure whenever you see this symbol.

WARNING

This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection and splashing fluid, wear the appropriate protective equipment and follow your proportioner’s Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing the equipment.

To relieve pressure in your air actuated dispense valve, follow the pressure relief procedure in your ProMix Proportioner Operation manual.

Maintenance

Clean the Dispense Valve Daily

NOTE: Be sure the solvent used is compatible with the fluid being dispensed, to avoid clogging the valve’s fluid passages.

An important part of the care and maintenance of your automatic dispense valve is proper flushing. Flush the valve daily with a compatible solvent until all traces of fluid are removed from the valve passages. Follow the Flushing procedure, page 7, before flushing.

Clean the outside surfaces of the valve by wiping with a soft cloth dampened with a compatible solvent.

WARNING

Never immerse the entire dispense valve in solvent. Immersing in solvent removes lubricants and may damage the o-rings.

Flushing

WARNING

To avoid fire and explosion, always ground equipment and waste container. To avoid static sparking and injury from splashing, always flush at the lowest possible pressure, and wear appropriate protective equipment.

Before flushing, be sure the entire system and flushing pails are properly grounded. Refer to Grounding on page 3. Follow the Pressure Relief Procedure, page 7. Always use the lowest possible fluid pressure, and maintain firm metal-to-metal contact between the dispense valve and the pail during flushing.

Start the proportioner and flush the system with a compatible solvent as explained in the instructions for your proportioner. Check the system under pressure for leaks; if any are found, follow the Pressure Relief Procedure, page 7, and repair the leaks. Pressurize the system again and make sure the leaking has stopped.
Troubleshooting

**WARNING**

**SKIN INJECTION HAZARD**
High-pressure fluid from hose leaks or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. Get immediate surgical treatment. To help prevent serious injury: do not put your hand over the fluid outlet or try to stop or deflect leaks; follow the **Pressure Relief Procedure**, page 7, when you stop dispensing and before cleaning, checking, or servicing equipment; tighten all fluid connections; and check hoses and couplings daily, and replace immediately as necessary.

**PERSONAL PROTECTIVE EQUIPMENT**
Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and chemical burns.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve will not close.</td>
<td>Fluid needle binding.</td>
<td>Clean, repair.</td>
</tr>
<tr>
<td></td>
<td>Piston o-rings binding.</td>
<td>Repair.</td>
</tr>
<tr>
<td></td>
<td>Obstructed or worn needle or seat.</td>
<td>Clean or replace.</td>
</tr>
<tr>
<td>Valve will not open.</td>
<td>Fluid needle binding.</td>
<td>Clean or repair.</td>
</tr>
<tr>
<td></td>
<td>Piston o-rings binding.</td>
<td>Repair.</td>
</tr>
<tr>
<td></td>
<td>No trigger or actuator pressure.</td>
<td>Check, clean all lines.</td>
</tr>
<tr>
<td></td>
<td>Worn or dry piston o-rings.</td>
<td>Replace.</td>
</tr>
<tr>
<td>Valve will not dispense.</td>
<td>Fluid supply source is not operating.</td>
<td>Check on fluid supply source.</td>
</tr>
<tr>
<td></td>
<td>Fluid line clogged.</td>
<td>Clear.</td>
</tr>
<tr>
<td></td>
<td>Fluid valve closed.</td>
<td>Open.</td>
</tr>
<tr>
<td></td>
<td>Clogged orifice or needle seat.</td>
<td>Clean.</td>
</tr>
</tbody>
</table>

Follow the **Pressure Relief Procedure**, page 7, before checking or repairing the equipment.

**NOTE**: Check all possible causes and solutions before disassembling.

**NOTE**: 26B108 valves are non-serviceable.
**Repair**

**WARNING**

**SKIN INJECTION HAZARD**

High-pressure fluid from hose leaks or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.** To help prevent serious injury: do not put your hand over the fluid outlet or try to stop or deflect leaks; follow the **Pressure Relief Procedure**, page 7, when you stop dispensing and before cleaning, checking, or servicing equipment; tighten all fluid connections; and check hoses and couplings daily, and replace immediately as necessary.

**PERSONAL PROTECTIVE EQUIPMENT**

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and chemical burns.

**NOTE:** 26B108 valves are non-serviceable.

**NOTE:** See the Dosing Pumps manual (332339) for disassembly instructions on PD2K system.

**Disassembly**

1. Follow the **Pressure Relief Procedure**, page 7.

2. Follow the **Flushing** procedure, page 7, with a compatible solvent.

3. Follow the **Pressure Relief Procedure**, page 7, after flushing and disconnect the fluid and air hoses.

4. Unscrew the cap (C) to remove spring pressure on the valve.

   **NOTE:** Another method of removing spring pressure is by applying air to the ON port, to lift the valve needle off the seat.

5. Unscrew the dispense valve from the adapter (A). Inspect the needle ball (B). Also inspect the seat (S) in the adapter for damage. The seat is reversible. See Fig. 4.

6. Unscrew valve cap (11). Remove the spring (12).

7. Hold the needle flats with a wrench to keep it from turning. Unscrew the piston (9, high pressure valves) or retainer (10, low pressure valves) from the needle.

8. Remove the o-rings (7, 8) from the piston (9).

9. Push the needle (22) from the top while pulling it from the bottom of the fluid body (3).

   **NOTE:** Needle may be hard to remove.

10. Unscrew the needle ball assembly (23) from the needle (22).

**NOTE:** See Fluid Mix Manifold Manual 312781 for seat replacement instructions and part numbers.

**Fig. 4. Valve Adapter and Seat**

**WARNING**

SKIN INJECTION HAZARD

High-pressure fluid from hose leaks or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.** To help prevent serious injury: do not put your hand over the fluid outlet or try to stop or deflect leaks; follow the **Pressure Relief Procedure**, page 7, when you stop dispensing and before cleaning, checking, or servicing equipment; tighten all fluid connections; and check hoses and couplings daily, and replace immediately as necessary.

**PERSONAL PROTECTIVE EQUIPMENT**

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and chemical burns.
11. Unscrew the fluid body (3) from the air body (6). Remove the packing (19), bearing (5), and u-cup (4) from the fluid body.

12. On high pressure valves, remove the o-ring (17) from the air body (6).

13. Clean, inspect, and replace parts as needed.

Reassembly

**NOTE:** Seal Kits 15U933 (for high pressure dispense valve 15X303 and 26A355), 24T817 (for acid catalyzed valves 24T785 and 26A313), and 15W621 (for low pressure dispense valve 15X304) are available to replace the seals. Parts included in the kit are marked with an asterisk, for example (4*). For best results, use all the parts in the kit.

**NOTE:** Use the 262028 Seal Installation Tool (supplied with the ProMix 2KS) to ensure proper installation of the u-cup (4).

1. Using the 262028 Installation Tool, install the u-cup (4*) into the fluid body (3) with the lips facing down. Install the bearing (5*) and packing (19*).

2. Slide the needle (22*) into the fluid body (3) from the top, down through the packing (19), bearing (5), and u-cup (4).

3. Apply thread sealant and screw the needle ball assembly (23*) onto the needle (22*).

4. Apply thread sealant and screw the fluid body (3) onto the air body (6).

5. On high pressure valves, install the o-ring (17*) on the air body (6).

6. Install the o-rings (7*, 8*) on the piston (9). Lubricate the o-rings.

7. Reinstall the piston (9):
   a. **On high pressure valves,** apply thread sealant to the top threads of the needle (22*). Holding the needle (22) steady by its flats, screw the piston (9) onto the needle (22*).
   b. **On low pressure valves,** slide the piston (9) onto the needle (22*). Apply thread sealant to the top threads of the needle. Holding the needle (22) steady by its flats, screw the retainer (10) onto the needle.

8. Before performing step 9, screw the dispense valve securely into the adapter (A, Fig. 4).

9. Install the spring (12) and valve cap (11).

**NOTE:** **On high pressure valves,** screw the valve cap (11) onto the air body (6) only until slight resistance is felt as the cap contacts the o-ring (17*). **Do not tighten the valve cap (11) at this time.**

10. Screw the valve cap (11) down onto the air body (6) until additional resistance is felt and the cap is tight with the body.

11. Unscrew the valve cap (11) one complete turn for the factory needle setting, or unscrew cap to setting prior to repair.

**NOTE:** To decrease needle travel, turn the cap (11) clockwise; to increase, turn counterclockwise. The valve is factory set at one open turn. **The maximum setting is four turns open.**
Parts

15X303 and 26A355 High Pressure Valve

* Parts included in Rebuild Kit 15U933 (purchase separately).

--- These parts are not available separately.

‡ Remove (12) and replace with this spring (marked with black stain) when valve is used as a dump valve or color change valve.

15V737 Valve Lubricator Cup (Option)

Install in fluid body (3) to lubricate seal (4).
24T785 High Pressure Valve for Acid Catalyzed Materials

* Parts included in Rebuild Kit 24T817 and 25N725 (purchase separately). Rebuild Kit 24T817 contains a PEEK seat retainer. Rebuild Kit 25N725 contains a 17-4 PH stainless steel seat retainer.

--- These parts are not available separately.

† For PD2K system: When replacing the 24T785 dispense valve, install a new valve seat retainer (27) and o-ring (28) into the manifold or adapter.

24T302 TSL Cup (Option)
Mount the cup and connect one tube to fluid body (3) to lubricate seal (4). See the ProMix PD2K Installation manual for instructions.
## 26A313 High Pressure Dump Valve for Acid Catalyzed Materials

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No. Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>BODY, fluid</td>
<td>1</td>
</tr>
<tr>
<td>4*</td>
<td>SEAL, u-cup, spring applied; uhmwpe</td>
<td>1</td>
</tr>
<tr>
<td>5*</td>
<td>BEARING, needle</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>BODY, air</td>
<td>1</td>
</tr>
<tr>
<td>7*</td>
<td>O-RING, shaft, piston; buna-N</td>
<td>1</td>
</tr>
<tr>
<td>8*</td>
<td>O-RING, body, piston; buna-N</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>15T413 PISTON</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>CAP, valve</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>17B969 SPRING, compression</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>GASKET; buna-N</td>
<td>2</td>
</tr>
<tr>
<td>14</td>
<td>PLUG, screw</td>
<td>2</td>
</tr>
<tr>
<td>15</td>
<td>ELBOW, tube fitting; 10-32 x 5/32 in. (4 mm) OD tube</td>
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</tr>
<tr>
<td>16</td>
<td>VENT, breather</td>
<td>1</td>
</tr>
<tr>
<td>17*</td>
<td>O-RING, body, air; buna-N</td>
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<tr>
<td>19</td>
<td>PACKING; uhmwpe</td>
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<tr>
<td>20*</td>
<td>O-RING; ptfe</td>
<td>1</td>
</tr>
<tr>
<td>21*</td>
<td>SHAFT, needle</td>
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<tr>
<td>23*</td>
<td>BALL ASSEMBLY, needle</td>
<td>1</td>
</tr>
<tr>
<td>27†</td>
<td>SEAT, valve, retainer</td>
<td>1</td>
</tr>
<tr>
<td>28†</td>
<td>O-RING, ptfe</td>
<td>1</td>
</tr>
</tbody>
</table>

* Parts included in Rebuild Kit 24T817 and 25N725 (purchase separately). Rebuild Kit 24T817 contains a PEEK seat retainer. Rebuild Kit 25N725 contains a 17-4 PH stainless steel seat retainer.

--- These parts are not available separately.

† When replacing the 26A313 dump valve, install a new valve seat retainer (27) and o-ring (28) into the manifold or adapter.

---

* Parts included in Rebuild Kit 24T817 and 25N725 (purchase separately). Rebuild Kit 24T817 contains a PEEK seat retainer. Rebuild Kit 25N725 contains a 17-4 PH stainless steel seat retainer.

--- These parts are not available separately.

† When replacing the 26A313 dump valve, install a new valve seat retainer (27) and o-ring (28) into the manifold or adapter.
15X304 Low Pressure Valve

15V737 Valve Lubricator Cup (Option)
Install in fluid body (3) to lubricate seal (4).

26B108 IniFlex Low Pressure Valve
26B108 is non-serviceable.
Technical Specifications

### Air Actuated Dispense Valve

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<tr>
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<th>US</th>
<th>Metric</th>
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<tbody>
<tr>
<td>Maximum air input pressure</td>
<td>100 psi</td>
<td>0.7 MPa, 7 bar</td>
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<tr>
<td>Minimum air pressure</td>
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<td></td>
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<tr>
<td>Model 26B108</td>
<td>70 psi</td>
<td>0.48 MPa, 4.8 bar</td>
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<tr>
<td>All models except 26B108</td>
<td>75 psi</td>
<td>0.52 MPa, 5.2 bar</td>
</tr>
<tr>
<td>Maximum fluid working pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Models 15X304, 26B108</td>
<td>300 psi</td>
<td>2.1 MPa, 21 bar</td>
</tr>
<tr>
<td>Models 15X303, 26A355, 24T785, 26A313</td>
<td>3000 psi</td>
<td>21 MPa, 207 bar</td>
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### Inlet/Outlet Sizes

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<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Air inlet fitting size</td>
<td>5/32 in. (4 mm) OD tube</td>
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### Materials of Construction

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<tbody>
<tr>
<td>Wetted parts (all models)</td>
<td>303 SST, 316 SST, 17-4 SST, Tungsten Carbide, PTFE, PEEK</td>
</tr>
<tr>
<td>Wetted parts (24T785, 26A313)</td>
<td>316 SST, 17-4 SST, Tungsten Carbide (with nickel binder), UHMWPE</td>
</tr>
<tr>
<td>Wetted parts (26B108)</td>
<td>301 SST, 17-4 PH SST, UHMW</td>
</tr>
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### Weight (by Model)

<table>
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<tr>
<th></th>
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<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>26B108</td>
<td>0.1 lb.</td>
<td>0.04 kg</td>
</tr>
<tr>
<td>15X304</td>
<td>0.3 lb.</td>
<td>0.14 kg</td>
</tr>
<tr>
<td>15X303, 26A355, 24T785, 26A313</td>
<td>0.5 lb.</td>
<td>0.23 kg</td>
</tr>
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</table>

### Notes

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California Proposition 65

**CALIFORNIA RESIDENTS**

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.

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.

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FOR GRACO CANADA CUSTOMERS
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