Progressive Cavity Pump

For the dispensing of highly filled single component fluids for the electronics industry. For use with UniXact® Automated Dispense Platform. For professional use only.

Not approved for use in explosive atmospheres or hazardous locations.

25B055 (Series A)
25B192 (Series A)
25B193 (Series A)

290 psi (2 MPa, 20 bar) Maximum Working Pressure

Important Safety Instructions
Read all warnings and instructions in this manual and in all UniXact manuals before using the equipment. Save all instructions.
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Related Manuals

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<tr>
<th>Manual</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3A4061</td>
<td>UniXact Automated Dispense Instructions-Parts</td>
</tr>
<tr>
<td>3A3649</td>
<td>UniXact Automated Dispense Setup-Operations</td>
</tr>
</tbody>
</table>
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 symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

**WARNING**

**MOVING PARTS HAZARD**
Moving parts can pinch, cut or amputate fingers and other body parts.
- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, relieve pressure and disconnect all power sources.

**BURN HAZARD**
Equipment surfaces and fluid that is heated can become very hot during operation. To avoid severe burns:
- Do not touch hot fluid or equipment.

**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 Safety Data Sheet (SDS) 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.

**PRESSURIZED EQUIPMENT HAZARD**
Fluid from the equipment, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.
- Follow the Pressure Relief Procedure when you stop spraying/dispensing 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.
### WARNING

**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 Specifications** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Specifications** in all equipment manuals. Read fluid and solvent manufacturer’s warnings. For complete information about your material, request Safety Data Sheets (SDSs) from distributor or retailer.
- Turn off all equipment and follow the **Pressure Relief Procedure** when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer’s replacement parts only.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- 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 safety regulations.

### 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 burns. Protective equipment includes but is not limited to:

- Protective eyewear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.
General Information

Pump Housing
The pump is designed with a pump housing, bearing package, and a rotor-stator set. The inlet of the pump is a JIC #8 internal thread. A JIC #6 and JIC #8 fitting is included with the pump. The outlet of the pump has a Luer internal thread.

Shaft, Bearing and Lubrication
The drive shaft is positioned in bearings which have permanent lubrication.

Recommended Spare Parts
Thermal Interface Materials tend to be very abrasive due to their high concentration of conductive fillers. These fillers will accelerate wear on the wetted components of the pumps. Therefore, Graco highly recommends stocking the following wetted components:

- Stator Kit (25B227, 25B228, 25B231)
- Seal Kit (25E195)
- Shaft Bearing Kit (25E196)

See Kits and Accessories on page 18 for more information.

Storage
When storing the pumps, the following points must be noted:

- Drive units should generally be stored indoors.
- Ambient temperature max. 25°C/77°F; relative humidity max. 80%.
- The stator should be removed from the rotor for storage.
- The progressive cavity pump units must be protected against sunlight and UV light.
- No aggressive or corrosive materials or agents must be stored nearby.
- The units must be protected against mechanical strain and the impact of external forces.
Component Identification

Key:
A  Pump Body
B  Inlet Fitting (JIC #6 and JIC #8)
C  Bleed Port
D  Seal Housing
E  Bearing Housing
F  Sanitary Clamp
G  Gear Box Connection Flange
H  Stator
J  End Adapter
K  Rotor Assembly

Fig. 1: Component Identification
Maintenance and Repair

Pressure Relief Procedure

Follow the Pressure Relief Procedure whenever you see this symbol.

1. Apply pressure to the inlet (2) of the pump.
2. Loosen the pressure bleed (1) one to two turns using a 1/2 inch wrench so air can escape. Material can flow without this pressure bleed being completely removed.

Priming the Pump

The pump is self-priming when certain conditions are met. However, with higher viscosity media, the material must be introduced first (pre-pressure). For more information on the priming conditions of specific material, refer to information provided by the material supplier.

Purging the Pump

For the pump to operate properly, all air needs to be removed and the pump needs to be filled with material.

This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop dispensing and before cleaning, checking, or servicing the equipment.

Always de-pressurize the system prior to any repair, following the instructions listed in the appropriate system manual. See Related Manuals on page 2.
Pump Maintenance

**NOTE:** The operating conditions of your particular system determine how often maintenance is required.

Graco progressive cavity pumps are largely maintenance-free. However, gaskets and bearings, as well as the stator and rotor, are subject to wear and must be replaced in certain circumstances at regular intervals. Regular review of the performance data is recommended. When there is maintenance work being carried out anywhere else on the system, the following points must be considered:

- Check all fastening screws and connections to ensure they are securely tightened, and re-tighten if necessary.
- Check the coupling (elastomer) for wear.
- Check the tightness of the pump, especially the shaft seals.
- The pump has a zerk fitting which allows for lubricant to be filled in between the shaft seals to help extend the life of the seals.

Pump Disassembly and Reassembly

**Disassembling the Pump**

Refer to *Component Identification* on page 6 as well as the following instructions/illustrations for the proper disassembly procedures for each corresponding section of the pump. Note the position of the parts respective to each other. We recommend marking the position of the pump parts and numbering them consecutively.

**NOTICE**

All disassembly must be carried out with care. Due to the risk of breakage, do not use force.

**Assembling the Pump**

O-rings must be checked for damage and replaced with new ones if necessary. PTFE gaskets must be replaced. All sealant residue must be completely removed.
Stator Disassembly

1. Perform the **Pressure Relief Procedure** on page 7.

2. Remove the pump by loosening the sanitary clamp (12) from the gear box adapter (6).

3. Unscrew the end cap (24) from the stator (23).

4. Unscrew the stator (23) from the pump body (1).

**NOTE:** Holding the shaft (5) in place to keep the rotor (19) from rotating will aid in removing the stator.

![Diagram of stator disassembly]

**FIG. 3**
Shaft and Bearing Housing Disassembly

1. Perform the **Pressure Relief Procedure** on page 7.
2. Remove the pump by loosening the sanitary clamp (12) from the gear box adapter (6).
3. Remove the four screws (17) using a 4mm allen wrench.
4. Remove the bearing housing (4), seal housing (2) and rotor assembly (19) from the pump body (1).
5. Cut the protective sleeve (33) to remove it from the bearing shaft (5) and rotor assembly (19) to expose the shoulder bolt (16).
6. Remove the shoulder bolt (16) using a 3/32” allen wrench to disconnect the rotor assembly (19) from the shaft (5).

**NOTE:** To ensure the hex does not strip out of the shoulder bolt (16), make sure no excess material is in the hex before removing.

7. Use a pick or small screw driver to remove the retaining ring (11) from the bearing housing (4).
8. Remove the shaft (5) and the bearing assembly (9).
Rotor Assembly Disassembly and Reassembly

Fig. 5
Disassembly

1. Perform the **Pressure Relief Procedure** on page 7.
2. Remove the pump by loosening the sanitary clamp (12) from the gear box adapter (6).
3. Remove the four screws (17) using a 4mm allen wrench.
4. Cut the protective sleeve (33) to remove it from the bearing shaft (5) and rotor assembly (19) to expose the shoulder bolt (16).
5. Remove the rotor assembly (19), bearing housing (4), and seal housing (2) from the pump body (1).
6. Clean any material out of the shoulder bolt (16).
7. Remove the shoulder bolt (16) using a 3/32" allen wrench.

**NOTE:** To ensure the hex does not strip out of the shoulder bolt (16), make sure no excess material is in the hex before removing.

Reassembly

1. Ensure the rotor assembly (19) and shaft (5) are clean before reassembly.
2. Apply a strip of removable strength anaerobic sealant to the indicator lines (M) on the shoulder bolt (16) and the end of the rotor (19) as shown in Fig. 5.
3. Tighten the shoulder bolt (16) to 9-10 in-lbs.
4. Slide the protective sleeve (33) into place. Do not allow it to extend beyond the end of the taper (N). Shrink the sleeve with a heat gun using a maximum temperature of 250° F (121° C).

**NOTE:** Specification sheets and Graco testing indicate that anaerobic sealant requires three days to fully cure. Failure to allow three days for full cure may result in parts coming loose during operation.

**NOTE:** When reassembling the pump, tighten the screws (17) in a star pattern to ensure each screw is tightened equally. Snug-tighten all four screws, then tighten screws 1, 4, 2, and 3 incrementally until they are fully tightened.
Seal Replacement

Disassembly
1. Follow steps 1 - 7 for Rotor Assembly Disassembly and Reassembly on page 12 to access the seal housing.
2. Remove the seal housing (2) from the bearing housing (4).
3. Remove the seal insert (3).
4. Remove the rotary seals (8) and o-rings (7) and replace as needed.

Reassembly
1. Install o-rings (7) onto the seal insert (3).
2. Install the seals (8) into the seal insert (3) and seal the housing (2).

NOTE: Pay careful attention to direction of the rotary seals when reinstalling.
3. Follow steps 1-4 for Rotor Reassembly on page 12.

NOTE: When reassembling the pump, tighten the screws (17) in a star pattern to ensure each screw is tightened equally. Snug-tighten all four screws, then tighten screws 1, 4, 2, and 3 incrementally until they are fully tightened.
Troubleshooting

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

2. Check all possible problems and causes before disassembling the pump.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No or very little material is being pumped.</td>
<td>Worn rotor/stator</td>
<td>Replace rotor/stator.</td>
</tr>
<tr>
<td></td>
<td>Material supply pressure not adequate.</td>
<td>Check feed system, ensure sufficient material is being supplied to pump.</td>
</tr>
<tr>
<td>Material is seeping out of seal housing.</td>
<td>Worn seal</td>
<td>Check/replace seals.</td>
</tr>
<tr>
<td>Material drools after dispense.</td>
<td>Worn rotor/stator</td>
<td>Replace rotor/stator.</td>
</tr>
<tr>
<td></td>
<td>Material pressure too high</td>
<td>Check pressure to the pump to ensure it is within operating limits.</td>
</tr>
<tr>
<td></td>
<td>No or insufficient snuffback</td>
<td>The pump will reverse the flow of material (snuffback), which is controlled by the system. Verify sufficient snuffback is enabled.</td>
</tr>
</tbody>
</table>
Parts

25B055

FIG. 7
25B192 and 25B193

FIG. 8
### Parts


<table>
<thead>
<tr>
<th>Ref.</th>
<th>Part</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25B1114</td>
<td>KIT, housing, pc pump, 1.45cc</td>
<td>1</td>
</tr>
<tr>
<td>2★</td>
<td>---</td>
<td>HOUSING, seal back, pc pump</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>25B116</td>
<td>KIT, seal insert</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>25B117</td>
<td>KIT, housing, bearing</td>
<td>1</td>
</tr>
<tr>
<td>5*</td>
<td>---</td>
<td>SHAFT, pc pump</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>25B118</td>
<td>KIT, coupler, gear box</td>
<td>1</td>
</tr>
<tr>
<td>7★</td>
<td>122134</td>
<td>O-RING, 027, FX75</td>
<td>3</td>
</tr>
<tr>
<td>8★</td>
<td>131510</td>
<td>SEAL, rotary, 20mm 10, uhmw pe</td>
<td>2</td>
</tr>
<tr>
<td>9*</td>
<td>---</td>
<td>BEARING, dbl row, angular contact</td>
<td>2</td>
</tr>
<tr>
<td>10*</td>
<td>131511</td>
<td>RETAINER, ring, ext, 25/32 dia, sst</td>
<td>1</td>
</tr>
<tr>
<td>11★</td>
<td>127022</td>
<td>RING, retaining, spiral</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>118598</td>
<td>CLAMP, 1.5&quot; sanitary</td>
<td>1</td>
</tr>
<tr>
<td>13◆</td>
<td>---</td>
<td>SEAT, 8 jic</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>125781</td>
<td>FITTING, union, 08 jic x 08 jic, sst</td>
<td>1</td>
</tr>
<tr>
<td>16‡</td>
<td>---</td>
<td>SCREW, shoulder, 6-32 x 518</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>125386</td>
<td>SCREW, shcs, m5X60</td>
<td>4</td>
</tr>
<tr>
<td>18★</td>
<td>---</td>
<td>FITTING, grease, 1/4-28</td>
<td>1</td>
</tr>
<tr>
<td>19‡</td>
<td>---</td>
<td>ROTOR, pc pump, 1.45cc (25B055 only)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>★ ---</td>
<td>ROTOR, pc pump, 0.30cc, sst (25B192 only)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>✓ ---</td>
<td>ROTOR, pc pump, 1.00cc, sst (25B193 only)</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>B32250</td>
<td>KIT, bleed, pressure</td>
<td>1</td>
</tr>
<tr>
<td>21★</td>
<td>---</td>
<td>SCREW, set, m3 x 4.0mm, sst</td>
<td>2</td>
</tr>
<tr>
<td>22★</td>
<td>---</td>
<td>SEAL, washer, ptfe</td>
<td>2</td>
</tr>
<tr>
<td>23★</td>
<td>129426</td>
<td>STATOR, 1.45cc, fkm, etched (25B055 only)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>★ 129424</td>
<td>STATOR, 0.30cc, fkm, etched (25B192 only)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>* 129425</td>
<td>STATOR, 1.00cc, fkm, etched (25B193 only)</td>
<td>1</td>
</tr>
<tr>
<td>24</td>
<td>25B119</td>
<td>KIT, adapter, end cap</td>
<td>1</td>
</tr>
<tr>
<td>25</td>
<td>126366</td>
<td>FITTING, union, 8 jic x 6 jic</td>
<td>1</td>
</tr>
<tr>
<td>27▲</td>
<td>15F744</td>
<td>LABEL, warning, iso pinch hazard</td>
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</tr>
<tr>
<td>31†★</td>
<td>---</td>
<td>ADAPTER, thread, mxf</td>
<td>2</td>
</tr>
<tr>
<td>32★</td>
<td>---</td>
<td>O-RING, fkm, 1mm x 14.5mm</td>
<td>2</td>
</tr>
<tr>
<td>33†‡</td>
<td>18A815</td>
<td>SLEEVE, 25mm</td>
<td>1</td>
</tr>
</tbody>
</table>

⚠️ Replacement safety labels, tags, and cards are available at no cost.

* Parts included in Shaft of Bearing Kit 25E196 (purchase separately).

♦ Parts included in Seal Kit 25E195 (purchase separately).

◆ Parts included in Kit 25B010 (purchase separately).

‡ Parts included in Rotor Kit 25B226 (purchase separately).

✔ Parts included in Rotor Kit 25B225 for 1.00cc (purchase separately).

* Parts included in Rotor Kit 25B224 for 0.30cc (purchase separately).

★ Parts included in Seal Backer Kit 25B115 (purchase separately).

☆ Parts included in FKM Stator Kit 25B231 for 1.45cc (purchase separately).

※ Parts included in FKM Stator Kit 25B228 for 1.00cc (purchase separately).

☆ Parts included in FKM Stator Kit 25B227 for 0.30cc (purchase separately).

† Parts included in Rotor Stator Kits 25B235 for 0.30cc, 25B236 for 1.00cc, and 25B237 for 1.45cc (purchase separately).
Kits and Accessories

Shaft Bearing Kit, 25E196

FIG. 9

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Part</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>---</td>
<td>SHAFT, pc pump</td>
<td>1</td>
</tr>
<tr>
<td>102</td>
<td>---</td>
<td>BEARING, dbl row, angular contact</td>
<td>2</td>
</tr>
<tr>
<td>103</td>
<td>131511</td>
<td>RETAINER, ring, ext</td>
<td>1</td>
</tr>
<tr>
<td>104</td>
<td>127022</td>
<td>RING, retaining, spiral</td>
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</tr>
</tbody>
</table>

Seal Kit, 25E195

FIG. 10

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Part</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>131510</td>
<td>SEAL, rotary, 20 mm id, UHMWPE</td>
<td>2</td>
</tr>
<tr>
<td>202</td>
<td>122134</td>
<td>O-RING, 027, FX75</td>
<td>3</td>
</tr>
</tbody>
</table>

Rotor Assembly Kit, 25B226 (for 1.45cc)

FIG. 11

<table>
<thead>
<tr>
<th>Ref.</th>
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<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>---</td>
<td>ROTOR, assy, 1.45 cc</td>
<td>1</td>
</tr>
<tr>
<td>302</td>
<td>---</td>
<td>SCREW, shoulder</td>
<td>1</td>
</tr>
<tr>
<td>303</td>
<td>---</td>
<td>ADHESIVE, anaerobic</td>
<td>1</td>
</tr>
<tr>
<td>304</td>
<td>---</td>
<td>SEAL, washer, PTFE</td>
<td>2</td>
</tr>
<tr>
<td>305</td>
<td>---</td>
<td>SLEEVE, 25 mm</td>
<td>1</td>
</tr>
</tbody>
</table>

Rotor Assembly Kit, 25B225 (for 1.00cc)

FIG. 12

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Part</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
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<td>ROTOR, assy, 1.00 cc</td>
<td>1</td>
</tr>
<tr>
<td>302</td>
<td>---</td>
<td>SCREW, shoulder</td>
<td>1</td>
</tr>
<tr>
<td>303</td>
<td>---</td>
<td>ADHESIVE, anaerobic</td>
<td>1</td>
</tr>
<tr>
<td>304</td>
<td>---</td>
<td>SEAL, washer, PTFE</td>
<td>2</td>
</tr>
<tr>
<td>305</td>
<td>---</td>
<td>SLEEVE, 25 mm</td>
<td>1</td>
</tr>
<tr>
<td>306</td>
<td>---</td>
<td>O-RING, FKM, 1 mm x 14.5 mm</td>
<td>2</td>
</tr>
</tbody>
</table>
Rotor Assembly Kit, 25B224 (for 0.30cc)

FKM Stator Kit, 25B228 (for 1.00cc)

FKM Stator Kit, 25B227 (for 0.30cc)

FKM Stator Kit, 25B231 (for 1.45cc)

---

Ref. Part Description Qty.
301 --- ROTOR, assy, 0.30 cc 1
302 --- SCREW, shoulder 1
303 --- ADHESIVE, anaerobic 1
304 --- SEAL, washer, PTFE 2
305 --- SLEEVES, 25 mm 1
306 --- O-RING, FKM, 1 mm x 14.5 mm 2

Ref. Part Description Qty.
501 --- KIT, stator 1.00 cc/rev 1
304 --- SEAL, washer, PTFE 2
402 --- O-RING, FKM, 1 mm x 14.5 mm 2
403 --- ADAPTER, thread, mxf 2

Ref. Part Description Qty.
401 --- KIT, stator 0.30 cc/rev 1
304 --- SEAL, washer, PTFE 2
402 --- O-RING, FKM, 1 mm x 14.5 mm 2
403 --- ADAPTER, thread, mxf 2

Ref. Part Description Qty.
601 --- KIT, stator 1.45 cc/rev 1
304 --- SEAL, washer, PTFE 2
### Rotor Stator Kit, 25B235 (for 0.30cc)

![FIG. 17](image1.png)

<table>
<thead>
<tr>
<th>Ref. Part</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>Rotor, assy, 0.30 cc</td>
<td>1</td>
</tr>
<tr>
<td>302</td>
<td>Screw, shoulder</td>
<td>1</td>
</tr>
<tr>
<td>303</td>
<td>Adhesive, anaerobic</td>
<td>1</td>
</tr>
<tr>
<td>304</td>
<td>Seal, washer, PTFE</td>
<td>2</td>
</tr>
<tr>
<td>305</td>
<td>Sleeve, 25 mm</td>
<td>1</td>
</tr>
<tr>
<td>306</td>
<td>O-Ring, FKM, 1 mm x 14.5 mm</td>
<td>2</td>
</tr>
<tr>
<td>401</td>
<td>Kit, stator 0.30 cc/rev</td>
<td>1</td>
</tr>
<tr>
<td>403</td>
<td>Adapter, thread, mxf</td>
<td>2</td>
</tr>
</tbody>
</table>

### Rotor Stator Kit, 25B237 (for 1.45cc)

![FIG. 19](image2.png)

<table>
<thead>
<tr>
<th>Ref. Part</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>Rotor, assy, 1.45 cc</td>
<td>1</td>
</tr>
<tr>
<td>302</td>
<td>Screw, shoulder</td>
<td>1</td>
</tr>
<tr>
<td>303</td>
<td>Adhesive, anaerobic</td>
<td>1</td>
</tr>
<tr>
<td>304</td>
<td>Seal, washer, PTFE</td>
<td>2</td>
</tr>
<tr>
<td>305</td>
<td>Sleeve, 25 mm</td>
<td>1</td>
</tr>
<tr>
<td>601</td>
<td>Kit, stator 1.45 cc/rev</td>
<td>1</td>
</tr>
</tbody>
</table>

### Adapter Kit, 25B238

![FIG. 20](image3.png)

<table>
<thead>
<tr>
<th>Ref. Part</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>304</td>
<td>Seal, washer, PTFE</td>
<td>2</td>
</tr>
<tr>
<td>306</td>
<td>O-Ring, FKM, 1 mm x 14.5 mm</td>
<td>2</td>
</tr>
<tr>
<td>403</td>
<td>Adapter, thread, mxf</td>
<td>2</td>
</tr>
</tbody>
</table>

### Rotor Stator Kit, 25B236 (for 1.00cc)

![FIG. 18](image4.png)

<table>
<thead>
<tr>
<th>Ref. Part</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>Rotor, assy, 1.00 cc</td>
<td>1</td>
</tr>
<tr>
<td>302</td>
<td>Screw, shoulder</td>
<td>1</td>
</tr>
<tr>
<td>303</td>
<td>Adhesive, anaerobic</td>
<td>1</td>
</tr>
<tr>
<td>304</td>
<td>Seal, washer, PTFE</td>
<td>2</td>
</tr>
<tr>
<td>305</td>
<td>Sleeve, 25 mm</td>
<td>1</td>
</tr>
<tr>
<td>306</td>
<td>O-Ring, FKM, 1 mm x 14.5 mm</td>
<td>2</td>
</tr>
<tr>
<td>403</td>
<td>Adapter, thread, mxf</td>
<td>2</td>
</tr>
<tr>
<td>501</td>
<td>Kit, stator 1.00 cc/rev</td>
<td>1</td>
</tr>
</tbody>
</table>
Seal Kit, 25B321 (for 0.30cc and 1.00cc Stators)

Ref. Part Description Qty.
304 --- SEAL, washer, PTFE 4
306 --- O-RING, FKM, 1 mm x 14.5 mm 4
Dimensions
25B055, 25B193, and 25B192

Motor/Gear Box Adapter

Shaft Coupler

NOTE: The shaft coupler is mounted to the gear box.
Technical Specifications

<table>
<thead>
<tr>
<th><strong>Progressive Cavity Pump</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stepper Motor Information</td>
<td>24-75 VDC - 10A; powered by UniXact (not included)</td>
</tr>
<tr>
<td><strong>Displacement (cc/rev.)</strong></td>
<td></td>
</tr>
<tr>
<td>25B055</td>
<td>1.45 cc/rev</td>
</tr>
<tr>
<td>25B193</td>
<td>1.00 cc/rev</td>
</tr>
<tr>
<td>25B192</td>
<td>0.30 cc/rev</td>
</tr>
<tr>
<td><strong>Maximum Operating Pressure</strong></td>
<td></td>
</tr>
<tr>
<td>All models</td>
<td>290 psi</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong>*</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature range</td>
<td>50°-120° F</td>
</tr>
<tr>
<td>Maximum material temperature</td>
<td>140° F</td>
</tr>
<tr>
<td><strong>Maximum pump speed</strong></td>
<td>60 revolutions per minute</td>
</tr>
<tr>
<td>All models</td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>1 - 1,000,000 mPa • s (depending on size)</td>
</tr>
<tr>
<td>All models</td>
<td></td>
</tr>
<tr>
<td><strong>Wetted Parts</strong></td>
<td>SST, FKM, UHMW, Alloy Steel, Acetal, Chrome Plating</td>
</tr>
</tbody>
</table>

**Notes**

* Refer to the Temperature section below for more information.

**NOTE:** The maximum operating pressures stated in the table above must not be exceeded. These values may change, depending on the speed and viscosity.

**Temperature**

The minimum and maximum temperature depends on the sealing material. Please note that there is a possible change in the material’s viscosity when the temperature changes.

**Speed Recommendation / Viscosity Ranges (without pre-pressure; p1 = 0 bar)**

These recommendations are only guideline values and depend greatly on the application and in situ conditions. The maximum permitted speed is crucial for the service life or wear of the pump. The inlet pressure must be selected within the permissible limits so that continuous filling of the pump is guaranteed.
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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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