



Nordson Corporation

OPERATOR'S CARD

P/N 229760C

GMT Rhino® Unloader Packing Gland Replacement Updated Pump Design



WARNING

- Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.
- Relieve pressure before disconnecting any hydraulic and coupling connections. Failure to observe may result in serious injury or equipment damage.

NOTE:

- The following illustrations, shown with guards removed, may not precisely match your bulk unloader model. The unloaders portrayed may be equipped with options that your unloader does not have. If you have any questions about this procedure and how it may differ from your unit, contact your Nordson representative. Replace any guards removed for servicing when you are finished.
- A packing gland removal tool (part 1001689) is available to aid in removing the packing gland.
- See Figures 1 and 2 to locate components.

Remove the Packing Gland



WARNING

Do not open the bleed valve more than two turns. The bleed valve and material may be forced from the valve body, resulting in personal injury.

1. Place the elevator in NEUTRAL and close the air lock out valve (1). Bleed the hydraulic pressure through the bleed valve (2) and guns.
2. Remove the screws (4) securing the coupling (3). Remove the coupling. Drain and remove the solvent chamber (5).
3. Open the air lockout valve (1). Push the pump rod down with the air motor shaft, then raise the air motor shaft. Close the air lockout valve (1).
4. Fit a pin spanner wrench (6) into one of the four holes (7) in the circumference of the gland retainer (8). Unscrew the gland retainer (with packing glands) counterclockwise out of the pump body.

NOTE

A worn plunger will cause premature seal wear and leakage of the new gland.

5. Clean and inspect the plunger for wear.

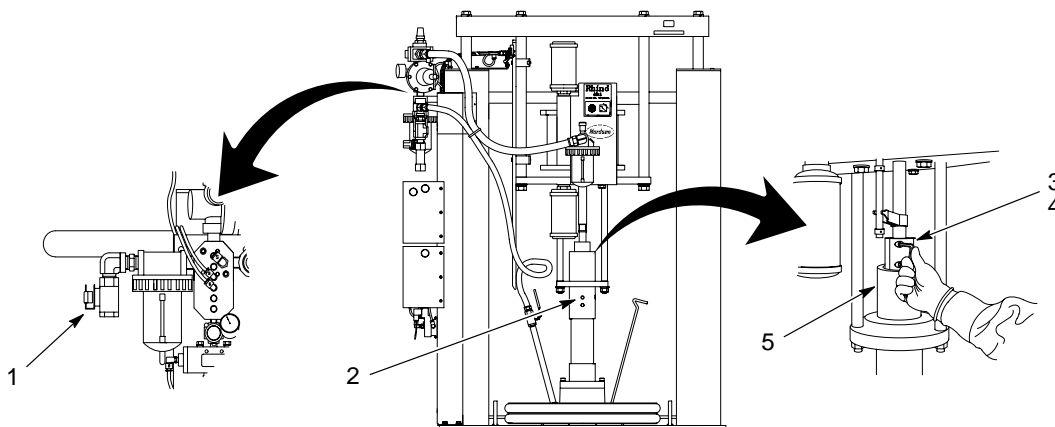


Figure 1 Typical Rhino Unloader

Install the Packing Gland

Clean the mating surfaces of the mounting flange, packing gland, and plunger before installing the new packing glands. Lubricate all seals and O-rings with a compatible lubricant.

1. Close the air lock out valve (1).
2. Coat the threads of the gland retainer (8) with Never Seez. Screw the gland retainer clockwise into the pump body. Do not pinch the O-ring.
3. Adjust the air motor regulator to 0 psi/bar and open the air lock out valve (1).
4. Using minimal air pressure, cycle the air motor until it is at the beginning of its up stroke. Close the air lock out valve (1).
5. Position both halves of the coupling (3) over the plunger and air motor shaft. Align the holes on the side of the coupling with the hole in the plunger. Secure the coupling halves using the screws (4).
6. Insert a screwdriver (9) through the coupling (3) and plunger.

NOTE

Make sure that the bleed valve on the pump body is open and not plugged.

7. Open the air lock out valve (1).
8. Using minimal air pressure at the air motor regulator, apply pressure to the air motor to draw the plunger up from within the pump body. Continue until the plunger has been raised high enough to access the coupling (3).
9. Close the air lock out valve (1). Remove the screwdriver (9).
10. Remove the screws (4) securing the coupling (3). Remove the coupling (3).
11. Install the solvent chamber (5).
12. Open the air lock out valve (1). Using minimal air pressure, cycle the air motor until the air motor shaft touches the plunger rod.

13. Close the air lock out valve (1).
14. Install the coupling (3) using appropriate thread locking compound on the screws (4). Tighten the screws evenly.
15. Fill the solvent chamber (5) with appropriate solvent to approximately 1.5 in. (3.8 cm) from the top.
16. Close the bleed valve (2).

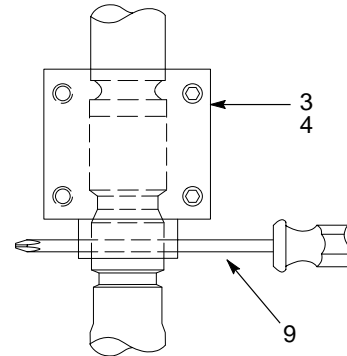
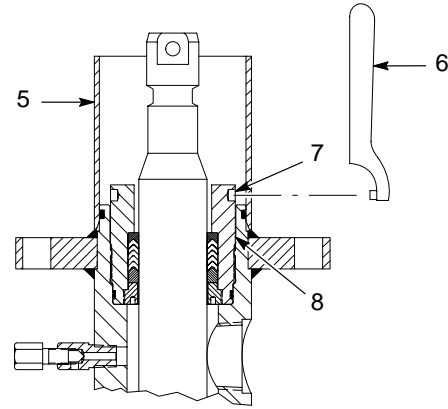


Figure 2 Packing Gland Installation

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