



Nordson Corporation

OPERATOR'S CARD

P/N 334458C

GMT Rhino® Unloader Packing Gland Replacement



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 unloaders are shown with guards removed. The portrayed systems may be equipped with options that may not precisely match your model. Contact your Nordson Corporation representative, if you have any questions. Replace all guards after replacing the packing glands.
- 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

1. Turn the rotary valve (5) to the NEUTRAL position.
2. Turn the air motor lock out valve (7) to OFF.
3. Open the bleed valve (2), and trigger the dispenser to relieve the remaining hydraulic system pressure.
4. Use a hex key, to remove the coupling screws (4). Remove the coupling (3).
5. Adjust the air motor regulator (6) to 0 psi/bar.
6. Turn the air motor lock out valve (7) to ON. Using the air motor shaft, slowly push down the pump rod.
7. Using minimal pressure at the air motor regulator (6), raise the air motor shaft to get free access to the gland retainer (12).
8. Turn the air motor lock out valve (7) to OFF.

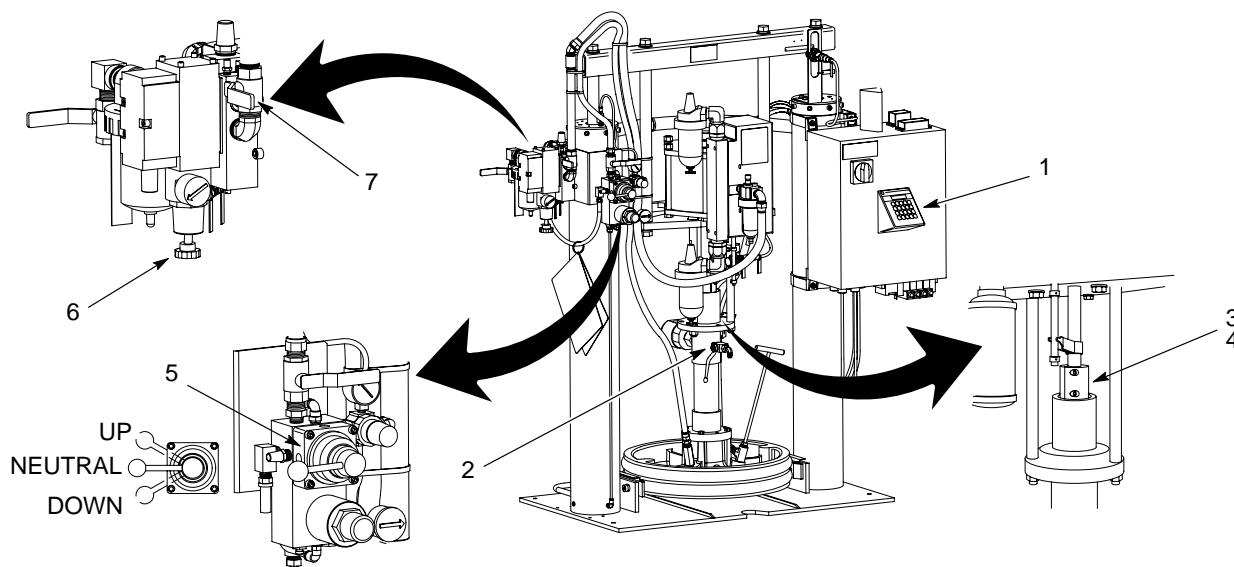


Figure 1 Typical GMT Rhino Unloader

Remove the Packing Gland (contd)

9. Drain and remove the solvent chamber (8).
10. Fit a pin spanner wrench (10) into one of the gland retainer holes (9), and unscrew the gland retainer counterclockwise out of the pump body.
11. Clean and inspect the plunger for wear.

NOTE

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

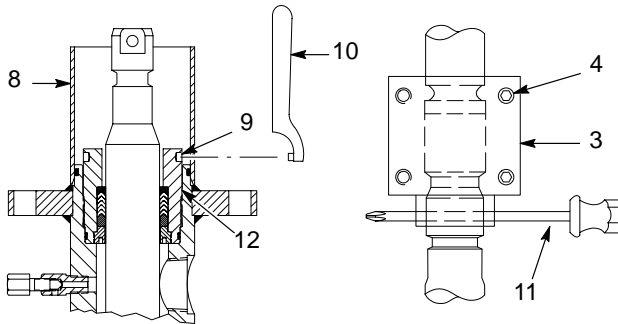


Figure 2 Packing Gland Removal and Installation

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. Make sure the air motor lock out valve (7) is OFF.
2. Coat the threads of the gland retainer (12) with Never Seez and screw the gland retainer clockwise into the pump body. Do not pinch the O-ring.
3. Adjust the air motor regulator (6) to 0 psi/bar and turn the air motor lock out valve (7) to ON.
4. Using minimal air pressure, cycle the air motor until it is at the beginning of its up stroke. Turn the air motor lock out valve (7) to OFF.
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 running through the plunger.
6. Secure the coupling halves together with the coupling screws (4). Insert a screwdriver (11) through the coupling and plunger.

NOTE

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

7. Turn the air motor lock out valve (7) to ON.
8. Using minimal air pressure at the air motor regulator (6), 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 install the coupling (3) properly.
9. Turn the air motor lock out valve (7) to OFF. Remove the screwdriver (11) and the coupling (3).
10. Install the solvent chamber (8).
11. Turn the air motor lock out valve (7) to ON. Using minimal air pressure, cycle the air motor just until the air motor shaft touches the plunger rod.
12. Turn the air motor lock out valve (7) to OFF.
13. Install the coupling (3) using appropriate thread locking compound on the coupling screws (4). Tighten the screws evenly.
14. Fill the solvent chamber (8) with appropriate solvent to approximately 1.5 in. (3.8 cm) from the top.
15. Close the bleed valve (2).

Purge Routine

Perform the following steps to purge the unloader. This procedure must be performed after replacing the packing glands, or after major repairs.

Execute the purge routine by using the keypad (1) located on the control cabinet of unit A. This procedure eliminates the remaining air volume under the follower plate.

1. Adjust the air motor regulator (6) to 0 psi/bar.
2. Press **Menu** on the keypad (1). The following appears:
 1. Purge
 2. Change
 3. Setup
 4. Manual
3. Press **[1]** on the keypad (1). The following appears:
 1. Purge Pump "A"
 2. Purge Pump "B"
4. Select the appropriate pump that needs to be purged.
5. Press **[F1]** on the keypad (1) to start purging the pump.
6. Open the bleed valve (2). Bleed the remaining air through the bleed valve and the dispensers.
7. Using minimal pressure at the air motor regulator (6), press **[F2]** on the keypad (1) to stop the pump.
8. Press the **Menu** button on the keypad (1) to exit the purge routine.
9. Reset the air motor regulator (6) to the original operating pressure.

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