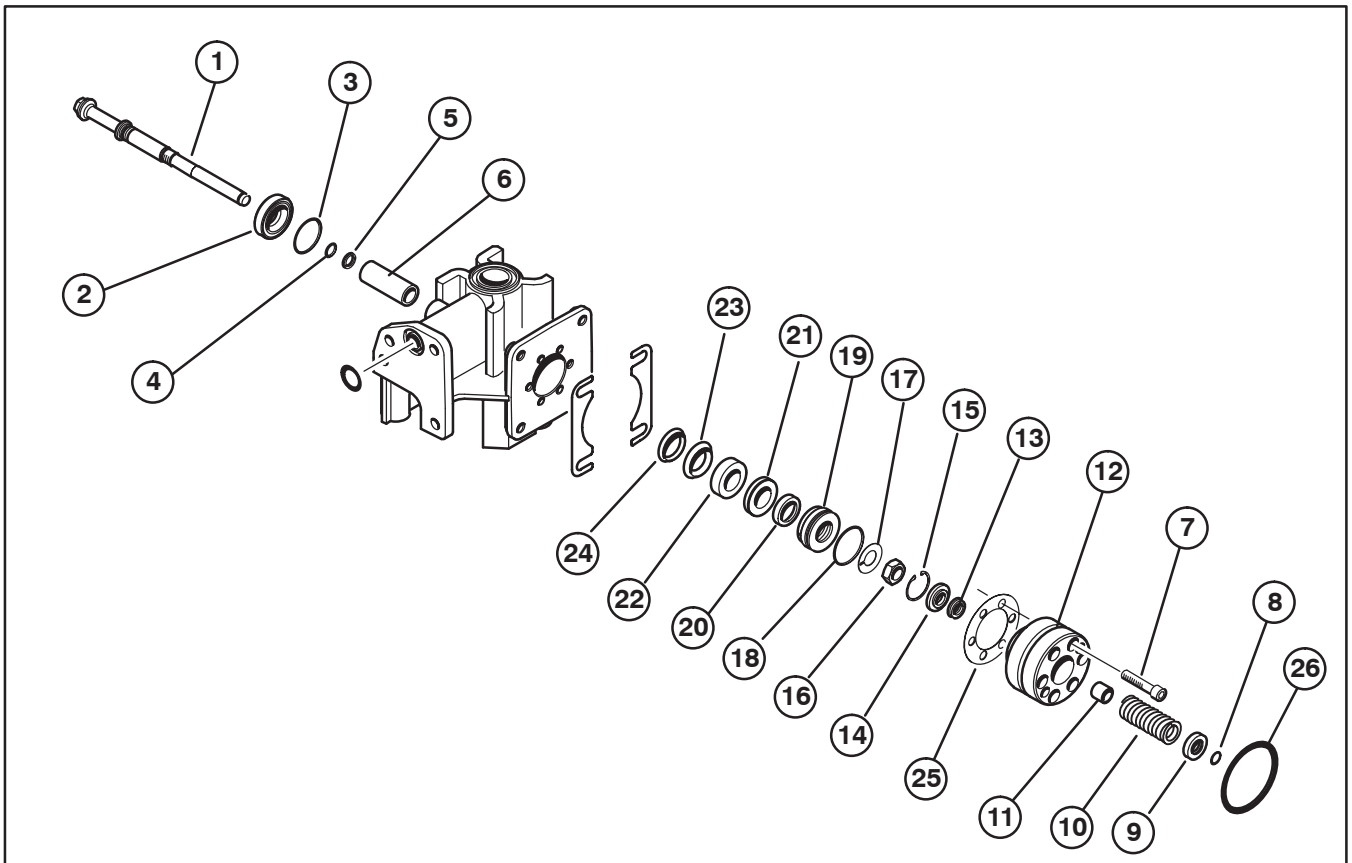


INSTALLATION INSTRUCTIONS

WATER VALVE KIT

For Hydroject® 3000

5. Use Valve Seal Installer (TOR4009) and Seal Insertion Mandrel (TOR4011) to properly install packing seal (Item 23) and seal/plunger support (Item 22) into valve body. Remove installers.



9. Hold spool and seat in place so O-ring does not fall out of place, then carefully slide valve spool, new sleeve seals, and valve seat, through ceramic sleeve.

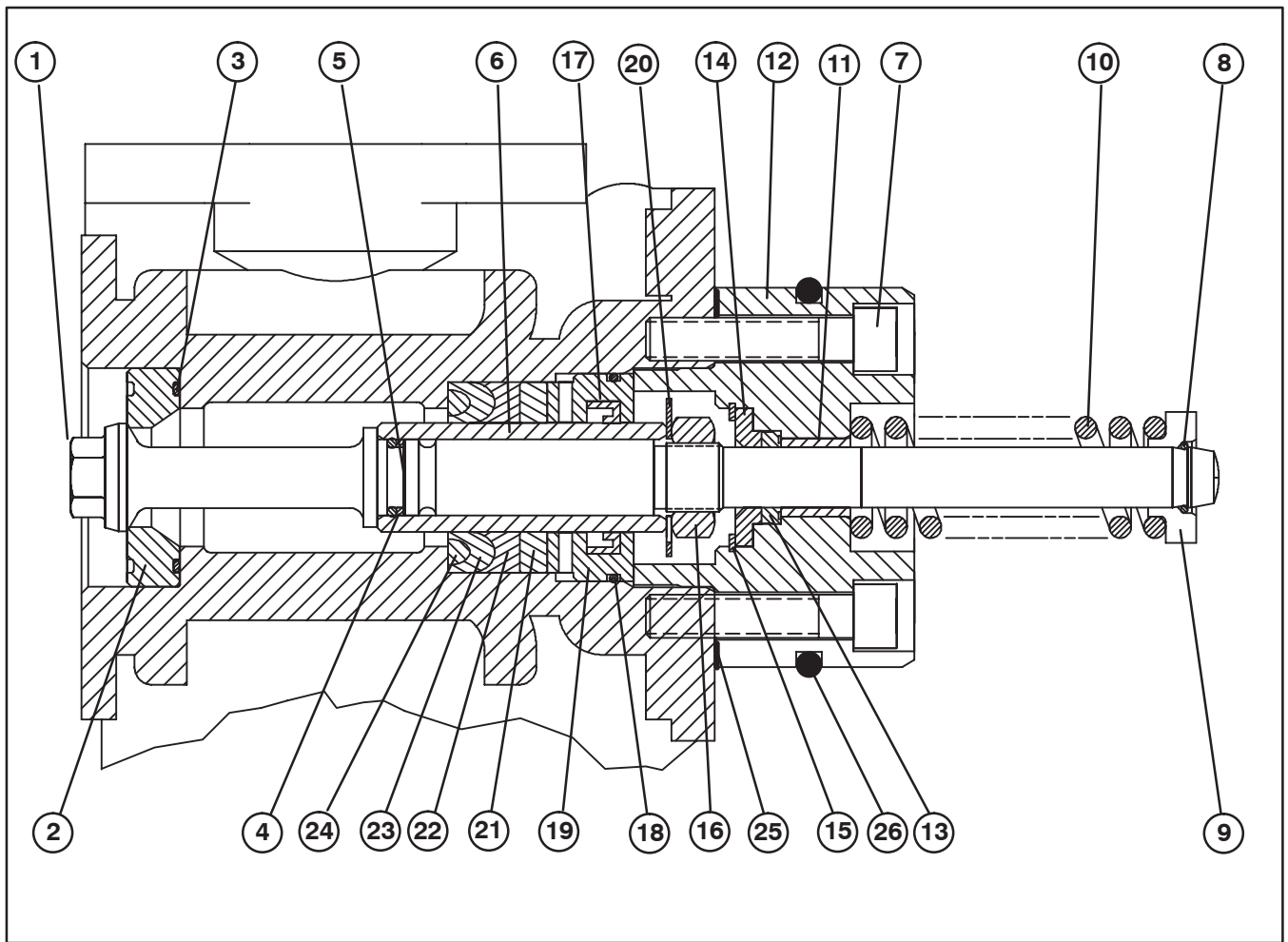


Figure 2

10. Install flat stainless steel washer (Item 17) onto valve spool. Apply Loctite 271 or equivalent to threads and install jam nut (Item 16). Tighten to a torque 20 ft-lbs.

11. Install gear case pilot (Item 12) with new gasket (Item 25) making sure the drain hole is pointing down. Holes in pilot allow only one method of installation. Tighten screws (Item 7) to a torque of 14 – 18 ft-lb.

NOTE: If valve spool (item 1) sticks open during operation, remove gear case pilot (item 12) and install a second gasket (item 25). Make sure the drain hole is pointing down.

12. Install compression spring (Item 10) onto valve spool.

13. Install valve spring studs through Valve Spring Compressor (TOR4008) and into threaded holes of water valve. Put spring retainer (Item 9) over spring and under spring compressor. Tighten nuts to compress spring, and install and retaining ring (Item 8). Remove special tool.

14. Remove large O-ring from gear case pilot (Item 12). Grease new O-ring (Item 26) and install in gear case pilot

NOTE: The manifold feeder keeps the valve seat stationary. The spring force of the water valve positions the valve seat prior to Feeder Manifold installation. Make sure cam lobe does not contact cam follower during feeder manifold installation.