

GP5120, GP5122 and GP5124 REPAIR INSTRUCTIONS

8. Maintenance and Servicing

For the type of threadlocker used and the required tightening torques, observe the table in the exploded view.

8.1 Special tools required

The following special tools are required for assembly:

- Pull-out tool size 1 (Ø12-Ø16)

8.2 Discharge Valves

Remove valve plugs (52) using a ring spanner.

Using a screwdriver, carefully push the exposed spring tension cap (51A) to the side to remove it from the valve seat.

Take out the spring tension cap, valve spring (51B) and valve plate (51C).

Pull out valve seat (51D) using a size 1 extractor tool (Ø12-Ø16).

To dismantle the complete valve, place a screwdriver through a gap in the spring tension cap, press on the valve plate and lever the valve apart.

Tighten plugs (52) to the required torque.

Suction Valves

Remove Stud bolt (60) and pull valve casing (50) past the plungers and off to the front.

Continue as described above under Discharge Valves.

Examine valves and replace worn parts.

8.3 Seals and Plunger

Unscrew the 8 Hexagon nut (60A).

Pull the valve casing off to the front.

Pull seal sleeves (33) out of the guides in the crankcase. Screw out plugs (34).

Check that the leakage bores are free from deposits of all kinds.

Take seal case (46) out of the seal sleeve (33), if necessary by pushing it out from the rear side of the seal sleeve using a rod.

Take tension spring (43) and seal unit (39-42) out of the seal sleeve.

Examine plunger surfaces and seals.

Replace seals if worn.

Note the sequence of installation – see detailed illustration in Exploded drawing.

After removing centring ring (33A), examine leakage seal (32) (and 31A regarding P55/40) and replace if necessary.

If the plunger surface is worn, remove tension screw (29D), clean the centring hole and the front of the plunger crosshead (25).

Then carefully thread a new plunger pipe through oiled seals into the seal sleeve.

Put centring sleeve (29A) together with plunger extension (29B) on to plunger crosshead (25).

Place the seal sleeves together with the plunger pipe into the drive.

Put a new copper seal ring (29E) onto tension screw (29D).

Lightly coat the threads of the tension screw as well as the seal ring with thread-locker and tighten to the required torque.



Under no circumstances should thread-locker get between the plunger extension (29B), plunger pipe (29B) and the centring sleeve (29A).

Tensioning of the plunger pipe due to eccentric tightening of the tensioning screw or due to dirt or damage to the contact surface can lead to breakage of the plunger pipe.

The seal sleeves must be fitted so that grooved pins (37) are on top.

Put tension spring (43) into seal casing (33) and place the seal case (46) into the valve casing.

Carefully centre the valve casing with the fitted seal cases onto the seal sleeves and against the crankcase.

Tighten the nuts (60A) for the valve casing evenly to the required torque.

Check torque tension after 3-5 operating hours.

If required, supplementary assembly instructions can be requested from the manufacturer Giant Industries.