

GP6124-4000 REPAIR INSTRUCTIONS

Maintenance and Servicing

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

Special tools required

The following special tools are required for assembly:

- Snap-ring tongs tool
- Screw M16x80

Suction and Discharge Valves

Screw off tension plugs (56).

Check O-ring (56A) and support ring (56B).

Take out spring (56C).

Take out discharge valve (51), pulling them upwards out of the valve casing with snap-ring tongs or screw M16. Then remove suction valves in the same way.

Remove valve seats (51A) from spacer pipe by lightly hitting the valve plate (51B) with a plastic stick.

Check sealing surface and replace worn parts.

Reassemble with new O-rings if possible and oil them before installing.

Tighten tension plugs (56) to the required torque.

Seals and Plunger

Screw out screw-in connector (47) on the valve casing. Loosen nuts (49A) and remove pump head. Remove piping (46, 47) from the seal sleeves (38). Separate plunger connection (37) from crosshead assy (25) by means of an open-end wrench (size 27).

Pull seal sleeve (38) out of their fittings in the crankcase.

Take seal case (39) out of seal sleeve (38).

Examine plunger (37), guide Ring (44) and seals (42, 43, 45).

Check O-rings (39A, 39C) and support rings (39B, 39D). Replace worn parts.

When replacing plunger (37), tighten plunger to the required torque.

Grease seals with silicone before installing.



Don't loosen the 3 plunger (37) before the valve casing has been removed. Otherwise plunger (37) could hit against the spacer pipe (51D) when the pump is being turned.

Mounting Valve Casing:

Check O-rings on seal case (39).

Clean surfaces of seal sleeves (38) in crankcase (1) and sealing surfaces of valve casing (50).

Push valve casing carefully onto seal case and centring studs (49C).

Mount piping (46, 47) between seal sleeve (38) and valve casing (50).

Tighten the fixing nuts (49A) for the valve casing evenly to the required torque.

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

Spare Parts

When **ordering spare parts**, please specify **pump type, pump number, year of manufacture, and parts order number**.

This data can be found on the nameplate and in the spare parts list.

Malfunctions / Remedy

For informations, see assembly instructions Giant Industries.

Materials Used

Valve Casing: AISI 303

Plunger: Solid ceramic

Valves: High-Grade Stainless Steel

Seals: Nitrile with fabric reinforcing

O-Rings: Nitrile

Paint

The pump drive is painted in RAL 3001 as standard.