P54W, P58W & P59W 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:
- Pull-out tool size 1 (Ø15/Ø12)

Suction and Discharge Valves
To Check Valves Screw out plugs (43) with socket wrench.
Remove spring tension cap (34), and valve plate (36) from discharge valve underneath. Remove valve seat (37) with pull-out tongs (size 1). Screw off screws (45) and remove valve casing (29).
Take intermediate casing (48) and valve casing (29) apart.
Pull seal case (39) out of valve casing (29). Remove suction valve parts as described above for discharge valve.
Check valve components for wear or damage.
Check O-rings (38,40,44,49).
Replace worn parts.
New, oiled O-rings, should be used if possible.
Reassemble in correct order.
Tighten plugs (43) to the required torque. Fix valve casing by tightening screw (45,46) evenly to the required torque.

Seals and Plunger
Screw-out screws (45) and remove valve casing (29).
Unscrew screws (46) and remove intermediate casing (48) from the valve casing (29).
Lever out seal packing (31), support ring (32) and seal packing (50) with a screw driver.
Check O-rings (49) in intermediate casing.
Check plunger surfaces and replace worn seals.
Pay attention to the installation position of the seals.
When replacing, wet new seals and O-rings thinly with silicone grease or mineral oil and insert carefully.

If plunger pipe (24A) is damaged, remove tension screw (24B) and take pipe out towards the front.
Thoroughly clean contact surfaces of plungers (22).
Assemble tension screw (24B), plunger pipe and new copper seal ring (24C).
Cover thread of tension screw (24B) with a fine film of thread-locker, screw into plunger (22) and tighten carefully to the required torque.

Under no circumstances should thread-locker get between the plunger pipe (24A) and the centering neck on the plunger (22). 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.

Fix valve casing by tightening nuts (45) 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 code 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:	Special Brass
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.