REPAIR INSTRUCTIONS - P57 & P57-0011

Maintenance and Servicing
For the type of thread locker used and the required tightening torques, observe the table below.

Special tools required
The following special tools are required for assembly:
- Pull-out tool Ø12

Suction and Discharge Valves
Suction Valve:
Remove plugs (41).
Take out suction valve adaptor (39) together with suction valve assembly (34-38).
Push valve parts out of suction valve adaptor using a soft tool. Check and replace worn parts.
Check O-rings (38,40,41 & 42) and replace as necessary.

Discharge Valve:
Remove plugs (43).
Remove spring tension cap (34), valve spring (35) and valve plate (36) underneath.
Take out valve seat (37) with a Ø12 mm pull-out device.
Check and replace worn parts.
Check O-rings (38,44) and replace as necessary.
Tighten plugs (41, 43) to the required torque.
Take care to reassemble in correct sequence.

Seals and Plunger
Remove plugs (41).
Loosen nuts (46) and remove valve casing (29) from plungers (22), pulling it out to the front.
Take out suction valve adaptor (39), tension spring (33), support disc (33A) and seal-unit (30, 31, 32).
Check surfaces of plunger pipes as damaged surfaces cause fast wear to the seals.
Check O-rings (40, 42) and grooved seal (31), replace as necessary.
When replacing, wet new seals and O-rings thinly with silicone grease or mineral oil and insert carefully.
Pay attention to the installation position of the seals.
Check surfaces on the plunger (22).
Damaged surfaces cause accelerated seal wear.
Deposits of all kinds must be removed from the plungers.

The plunger surfaces are not to be damaged.

If the plunger (22) is worn, the complete plunger must be changed.
The ceramic pipe alone cannot be changed due to reasons of precision.
For replacement please contact manufacturer.
Install support disc (33A), tension spring (33) and suction valve adaptor (39), then tighten plug (41) to the required torque.
Fix valve casing (29) by tightening nuts (46) evenly to the
required torque.

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

Malfunctions / Remedy
For informations, see assembly instructions Giant Industries.

Materials Used

Valve Casing:	AISI 316L
Plunger:	Hard metal-coated stainless steel
Valves:	High-Grade Stainless Steel
Seals:	Nitrile with fabric reinforcing
O-Rings:	Nitrile

Paint
The pump drive is painted in RAL 3001 as standard.

P57 & P57-0011 TORQUE SPECIFICATIONS

Position	Thread	Lubrication Info.	Torque Amount
7	1” BSP	Loctite 5910	106 in.-lbs. (12 Nm)
9	M6		88 in.-lbs. (10 Nm)
11	1/4” BSP		22 ft. lbs. (30 Nm)
16	M8		132 in.-lbs (15 Nm)
20	M6		106 in.-lbs. (12 Nm)
41	M30 x 1.5		52 ft.-lbs. (70 Nm)
43	M22 x 1.5	Loctite 243	52 ft.-lbs. (70 Nm)
46	M10		35 ft.-lbs. (47.5 Nm)

NOTE: Contact Giant Industries for Service School Information. Phone: (419)-531-4600