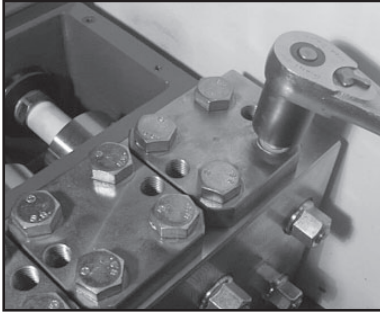
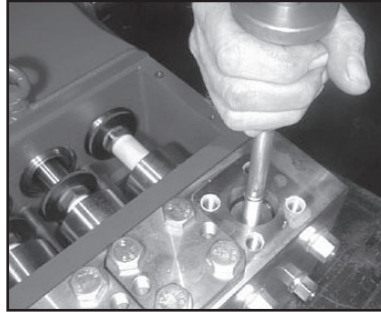


GP7132 AND GP7136 REPAIR INSTRUCTIONS

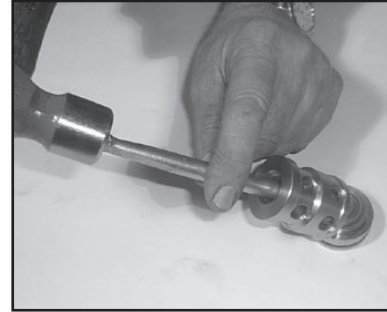
NOTE: Always take time to lubricate all metal and non-metal parts with a light film of oil before reassembling. This step will help ensure proper fit, at the same time protecting the pump non-metal parts (elastomers) from cutting and scoring.



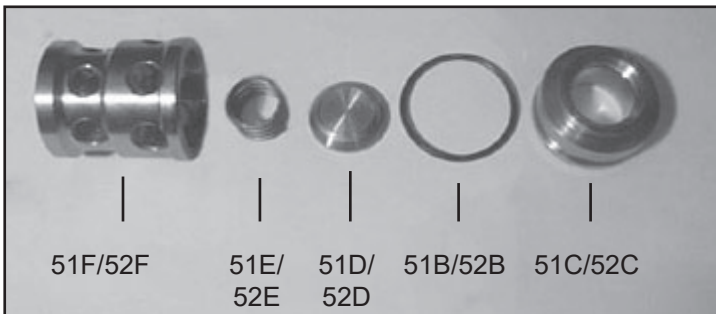
1. Loosen screws (58C), take plugs (58) out of valve casing with two screws.



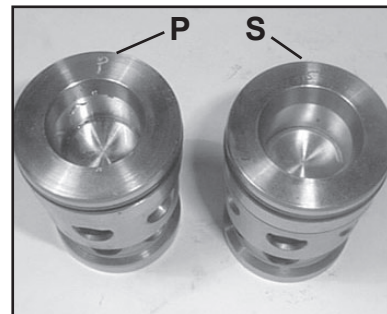
2. Take out tension spring (57) and complete valve (51) using either valve tool (part #07662) or stud bolt M16.



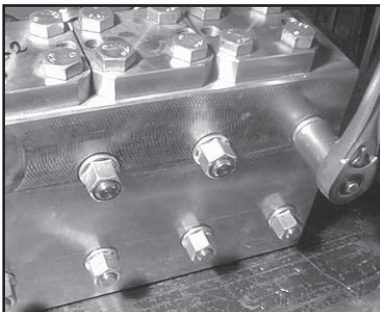
3. Valve seats (51C and 52C) are pressed out of spacer pipe (51F) by hitting the valve plate (51D/52D) with a bolt.



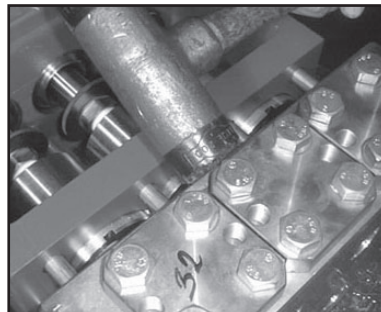
4. Check surfaces of valve plate (51D/52D), valve seat (51C/52C), O-rings (51B, 52B) and replace worn parts.



5. When reassembling: The suction valve seat (51C) is 1mm smaller in diameter than the discharge valve seat (52C). Suction valve seats are marked "S" and always have to be installed first. Discharge valve seats are marked "P" and are always to be installed on top of suction valve. Plugs (58) are to be tensioned down evenly with screws (58C) in a crosswise pattern at 155 ft-lbs. (210 Nm).

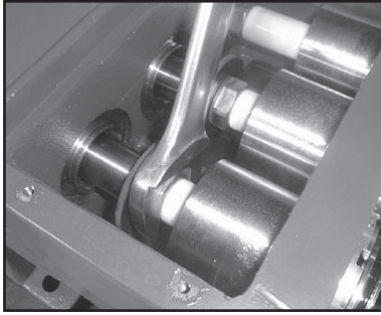


6. Loosen nuts (49A)

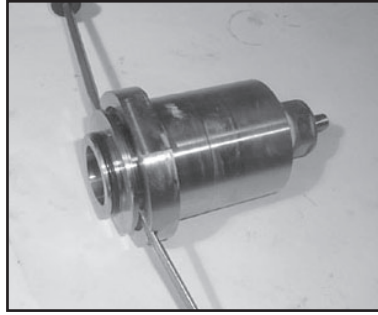


7. Remove pump head.

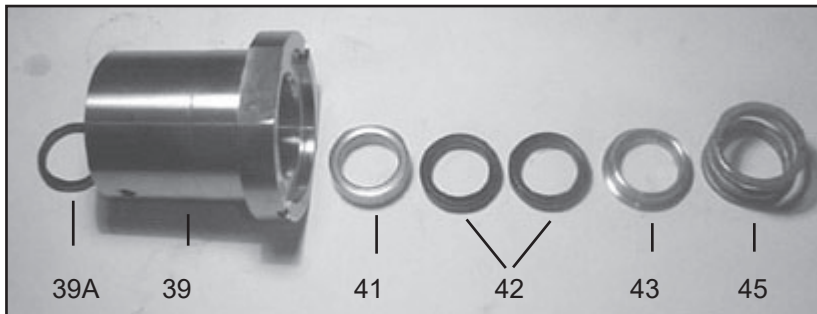
GP7132 AND GP7136 REPAIR INSTRUCTIONS



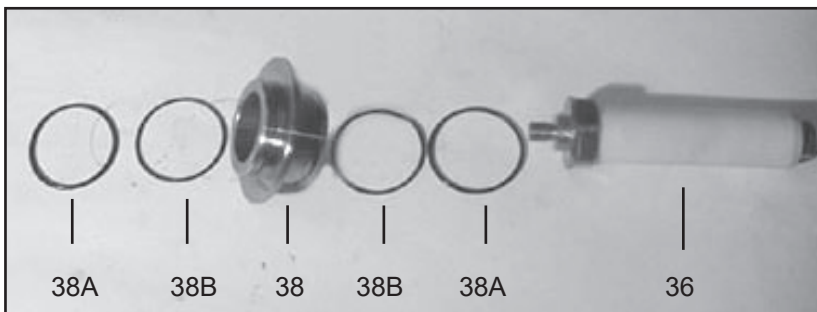
8. Separate plunger (36A) from crosshead (25) by means of one open-end wrench (M36).



9. Pull seal sleeves (39) out of their fittings in the crankcase. Take seal case (38) out of seal sleeve (39).



10. Take tension spring (45) and seal pack (41, 42, 43) out of seal sleeve. Take a thin screw driver and pry out the grooved ring (39A). **Note: This seal (39A) will not be reusable, so replace with a new part.** For the seal-pack (41-43), remove with either a socket wrench or use a screw driver to push against the rear lip of the pressure ring (41) or v-sleeves (42). You will need to remove seals evenly out of the seal sleeve (39). **Be careful not to score the sleeve or metal parts (41 & 43).**



11. Check plunger pipe (36B) and seals (39A, 42) for wear. When replacing plunger pipe (36B), tighten tensioning screw (36C) to 30 ft-lbs (40 NM). If o-rings (38A) or support rings (38B) are damaged, replace with new parts.

GP7132 AND GP7136 REPAIR INSTRUCTIONS

CAUTION: Don't loosen the 3 plunger (36) before the valve casing has been removed otherwise the plunger (36) could hit against the spacer pipe (51F) when the pump is being turned. Seal life can be increased if the pretensioning allows for a little leakage. This assists lubrication and keeps the seals cool. It is therefore not necessary to replace seals before the leakage becomes too heavy and causes output and operating pressure to drop.

MOUNTING VALVE CASING

NOTE: Replace worn parts; grease seals with silicone before installing.

12. Check O-rings (38A) and support rings (38B) on seal case (38). Clean surfaces of seal sleeves in gear box and sealing surfaces of valve casing. Reassemble seal sleeve (39) by placing plunger (36) in seal sleeve; place pressure ring (41), v-sleeves (42), sleeve support ring (43), and tension spring (45) over plunger (36). Place the seal case onto the seal sleeve and press into the crankcase, making sure that the weep hole on the seal sleeve is facing down. Tighten tensioning screw (36C) to 30 ft.-lbs. (40 Nm). Tighten plunger connection (36A) onto crosshead (25) with an open end wrench (M36) to 33 ft.-lbs. (45 Nm).
13. Push valve casing carefully onto O-rings of seal case and centering studs (50A). Tighten nuts (49A) to 103 ft.-lbs. (140 Nm).

TO DISASSEMBLE GEAR

14. Take out plunger (36) and seal sleeves (39) as described above. Drain oil.
15. After removing the circlip ring (33B), lever out seal retainer (33) with a screw driver. Check seals (32,32A,33A) and surfaces of crosshead.
16. Remove crankcase cover (4). Loosen inner hexagon screws on the connecting rods (24) and push con rod halves as far into the crosshead guide as possible.

IMPORTANT: Connecting rods are marked for identification. Do not twist con rod halves. Con Rod is to be reinstalled in the same position on shaft journals.

17. Check surfaces of connecting rod and crankshaft (22). Take out bearing cover (14) to one side and push out crankshaft taking particular care that the connecting rod (24) doesn't bend.

CAUTION: Seal (32A) must always be installed so that the seal-lip on the inside diameter faces the oil. Reassemble in reverse order: Regulate axial bearing clearance - minimum 0.1mm, maximum 0.15mm-by means of fitting disc (20A). The crankshaft (22) should turn easily with little clearance. Tighten fitting screws (24A) to 30 ft.-lbs. (40 Nm).

CAUTION: Connecting rod (24) must have some sidewise movement at the stroke journals.

GP7132 and GP7136 TORQUE SPECIFICATIONS

Position	Item #	Description	Lubrication Information	Torque Amount
1	07600	Crankcase	Molycote Cu-Paste	
10	22706	Inner Hexagon Screw		33 ft.-lbs. (45 Nm)
12	07109	Drain Plug		59 ft.-lbs. (80 Nm)
24A	07616	Fitting Screw		30 ft.-lbs. (40 Nm)
30A	07225-0100	Hexagon Screw		89 in.-lbs (10 Nm)
32	07624	Radial Shaft Seal	Loctite 403	
36A	07667	Plunger Base		33 ft.-lbs. (40 Nm)
36C	12055	Tensioning Screw	Loctite 243	30 ft.-lbs. (45 Nm)
49	13159	Stud Bolt	Loctite 270	
49A	13160	Hexagon Nut		103 ft.-lbs. (140 Nm)
58C	07702	Hexagon Screw	Pro Pack 550	155 ft.-lbs. (210 Nm)