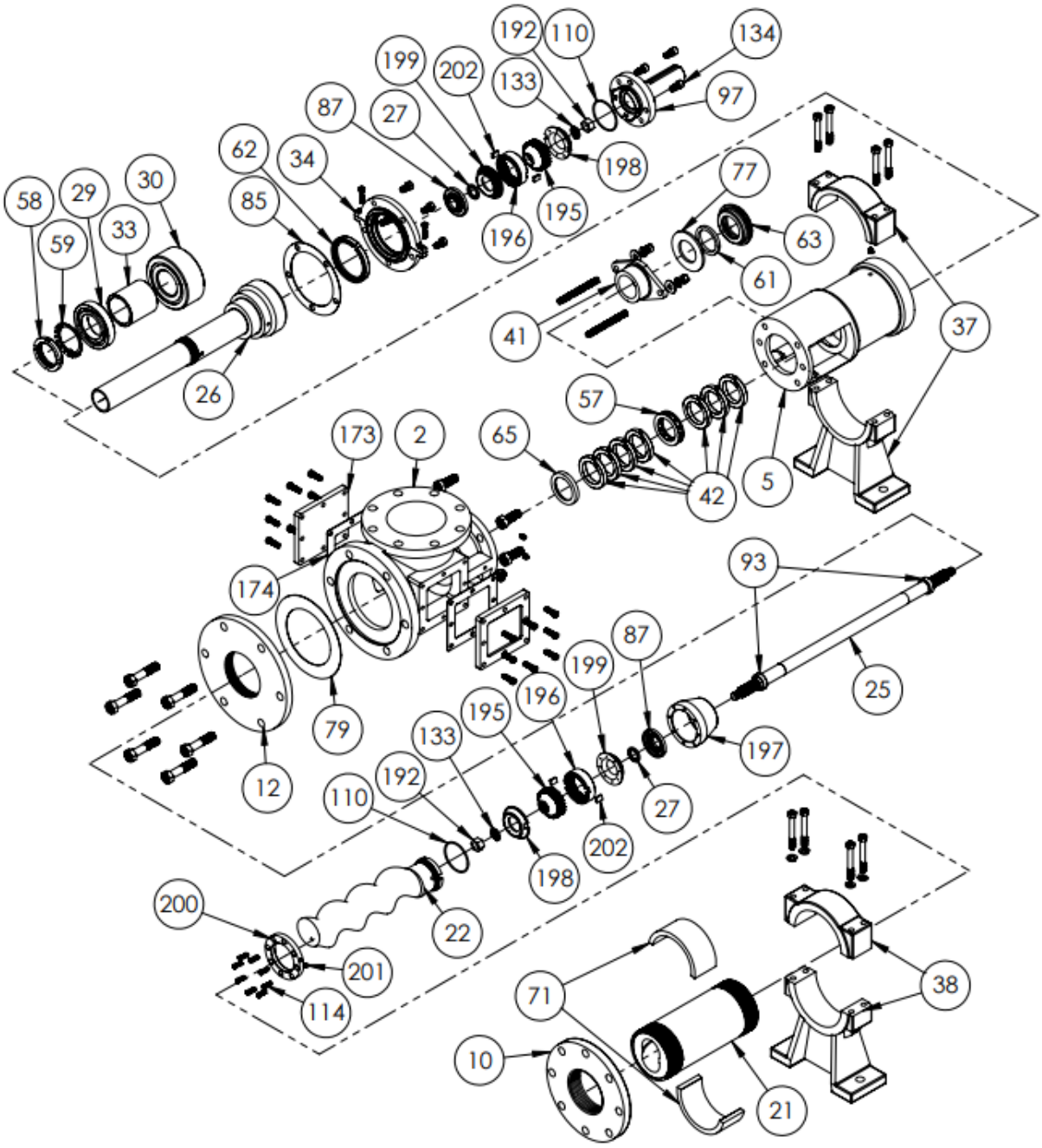
CONTINENTAL® PROGRESSING CAVITY ULTRAPUMP
A DIVISION OF KINETIFLO GROUP

CG8, CG10 & CG10H Pump Disassembly



#71 is only used on CG8

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Before starting disassembly, drain lines and suction housing of as much liquid as possible. A section of the piping at the discharge side of the pump should be easily removable to facilitate the replacement of rotor, stator, or gear joint parts. The recommended "*Length of Piping*" is as set forth in CLEARANCE TABLE NOTE "A"

CLEARANCE TABLE		
MODEL	NOTE "A"	NOTE "B"
CONTINENTAL	Length of Piping	Space Required
1CG8	31"	7/8"
2CG8		
1CG10		
2CG10		
1CG10H		
2CG10H		
1CG12	37"	1"
2CG12		
1CG12H		
2CG12H		

1. Remove this section of piping and the discharge flange, (10).
2. Remove clamp bolts from stator support, (38). Then pull the top half of the stator support from the stator, (21).
3. Place temporary support, such as a block of wood, under suction housing, (2), and remove bottom half of stator support, (38).
4. Remove bolts from adapter flange, (12). Then pull assembly of stator, (21), and adapter flange, (12), from rotor, (22).
5. Remove adapter flange, (12), from stator, (21), and remove adapter gasket, (79). This is as far as the pump should be disassembled for replacement of the stator. To reassemble, use new stator (21) and reverse the above procedure.
6. Remove shaft screws, (134), from drive shaft head, (97), and pull driveshaft head from driveshaft, (26. **NOTE**: If pump is directly coupled to the driver, a space should be left between the end of the driveshaft and the motor shaft to allow removal of the driveshaft head. This can normally be done with radial removable couplings. The "Space required" is as set forth in CLEARANCE TABLE NOTE" B".
7. Remove "O" ring, (110), from driveshaft head, (97).
8. Push on the discharge end of the rotor so that the connecting rod nut, (192), will project from the driveshaft, (26).
9. Remove connecting rod nut, (192), shaft lock washer, (133), front thrust plate, (198), shaft keys, (202), gear joint, (195), ring gear, (196), rear thrust plate, (199), spacer, (29), boot seal cover, (87), from the connecting rod, (25).

NOTE: When reassembling, pack cavity in driveshaft head, (97), gear teeth, and spherical bearing surfaces with anti-friction bearing grease (Shell, Alvania, EP-O, or equivalent).

10. Pull rotor and connecting rod assembly from pump.
11. Remove rotor head seal retainer screws, (114), from head ring, (200). Pull head ring over contour of rotor, (22).
12. Pull gear joint shell, (197) from rotor, (22), and remove O-ring, (110) from rotor. This is as far as the pump should be disassembled for replacement of the rotor. Use a new rotor

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and stator. Reverse the above procedure to reassemble.

13. Remove gear joint shell, (197), from connecting rod, (25), by pulling it off the opposite end of its normal position.
14. Remove connecting rod nut, (192), shaft lock washer, (133), front thrust plate, (198), shaft keys, (202), gear joint, (195), ring gear, (196), rear thrust plate, (199), spacer, (27), boot seal cover, (87). When reassembling, pack cavity in rotor, (22), gear teeth, and spherical surfaces with anti-friction bearing grease (Shell, Alvania, EP-O, or equivalent).
15. Remove screws from the bearing cover plate, (34), which allows removal of the bearing cover plate and the thrust bearing grease seal, (62).
16. Remove driveshaft (26) assembly from bearing housing (5). We recommend using a press for the removal of the driveshaft (26) and bearing assembly from the bearing housing. (5). If press is not available you can insert a rod or bar inside driveshaft from packing end and drive ball bearing and shaft assembly out of the bearing housing, (5). Slinger ring, (77), is removed from driveshaft during removal of shaft from bearing housing.
17. To disassemble the driveshaft assembly, remove bearing lock nut, (58), and bearing lock washer, (59). Then press off bearing, (29), bearing spacer, (33), and bearing, (30). When reassembling, bearings should be packed with anti-friction bearing grease (Shell, Alvania, EP-O, or equivalent).
18. Remove packing gland, (41), packing gland bolts, packing, (42), lantern ring, (57), and packing washer, (65). Remove radial grease seal, (61), from the grease seal retainer, (63), out of the main body casting, (2). Remove thrust bearing grease seal, (62), from bearing cover plate, (34).
19. To reassemble, reverse the above procedure. When inserting packing, make sure each ring is lubricated and that the ends are staggered so that no two adjacent rings have their ends in the same position.