

Technical Service Bulletin 090303

Pump Seal Replacement Instructions

Maintenance – Model 3656

Lubrication

Pumps should require no maintenance other than motor bearings:

In hot or severe service, lubricate every three months. Follow motor manufacturer's instructions to determine lubrication schedule. Lubricate with power off and motor warm.

1. Remove upper and lower plugs at both bearings
2. Add grease through upper hole with low-pressure gun
3. Run motor 30 minutes
4. Stop motor and remove drained grease
5. Replace all plugs

Caution: Do not over-grease.

Replacing Mechanical Seal of Pumps

Dismantling:

1. Turn off power
2. Drain system
3. Remove bolts holding motor to foundation
4. Remove casing bolts
5. Remove motor and rotating element from casing, leaving casing and piping undisturbed
6. Insert a screwdriver in impeller waterway passage and remove impeller bolt with a socket wrench (Fig. 1)

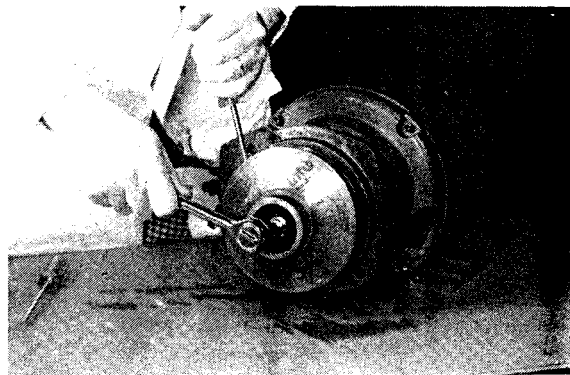


Figure 1

7. Remove washer and impeller from shaft. Be careful not to lose impeller key. If impeller is difficult to remove, it may be necessary to insert two (2) screwdrivers, between impeller and adapter, 180 degrees apart, to pry off impeller.
8. Remove bolts holding adapter to motor. Remove adapter, pulling with it the rotating seal part from sleeve.
9. Place adapter on a flat surface. Push out stationary parts of mechanical seal.
10. Inspect shaft sleeve. If damaged, remove from shaft. Heat with torch and use a bearing puller.

Reassembly:

1. Clean parts, male and female locks, seal seat counterbore and shaft, in particular where sleeve fits (if sleeve was removed).
2. Spray both shaft sleeve fit and sleeve inside with LOCQUICK®, Primer "T"® -- Loctite® product Item No. 74756. (Purchase at automotive parts or hardware). Let parts dry and then apply Loctite® #271 on same parts. Slide sleeve over shaft, twist sleeve back and forth a couple times. Wipe off excess and let cure according to manufacturer's instructions.
3. Lube counterbore of adapter and rubber bushing of stationary seat with water or light oil. Press stationary seat in counterbore squarely and evenly.

Caution: Do not mar lapped face of seat.

4. With motor in vertical position, remount adapter on motor. Make sure motor shaft does not dislocate stationary seat of the seal.
5. Apply a thin coat of light oil or water to sleeve and rubber seal member of rotating seal. Slide rotating member of mechanical seal on sleeve. Attach spring. Be sure rotating seal face stays in the holding collar during installation. Take extra care not to damage the seal lapped faces.
6. Place key in keyway slot and slide impeller on shaft. Place impeller washer on impeller bolt into motor shaft. (Bolt has Teflon thread coating. Reuse only two times).
7. Inset a screwdriver in a waterway passage of the impeller. Hold from rotating and tighten bolt.
8. Remove burrs caused by screwdriver on periphery of impeller in waterway passages.
9. Slide motor and rotating element in casing. Be sure to replace damaged O-rings.
10. Tighten casing bolts alternately and evenly.
11. Replace hold-down bolts
12. Check for free rotation after assembly is complete
13. Close all drain openings. Use pipe joint compound on male threads.
14. Reprime before starting. Do not start unit until pump is completely filled with water.
15. Procedure complete

Information for this procedure was extracted from Goulds Pumps, Inc. Maintenance – Model 3656 procedure dated February 1986. Permission granted by ITT Corporation.



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