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## **CGS - CARTRIDGE GREASE SEAL INSTALLATION INSTRUCTIONS**

### **Pre-installation Checklist**

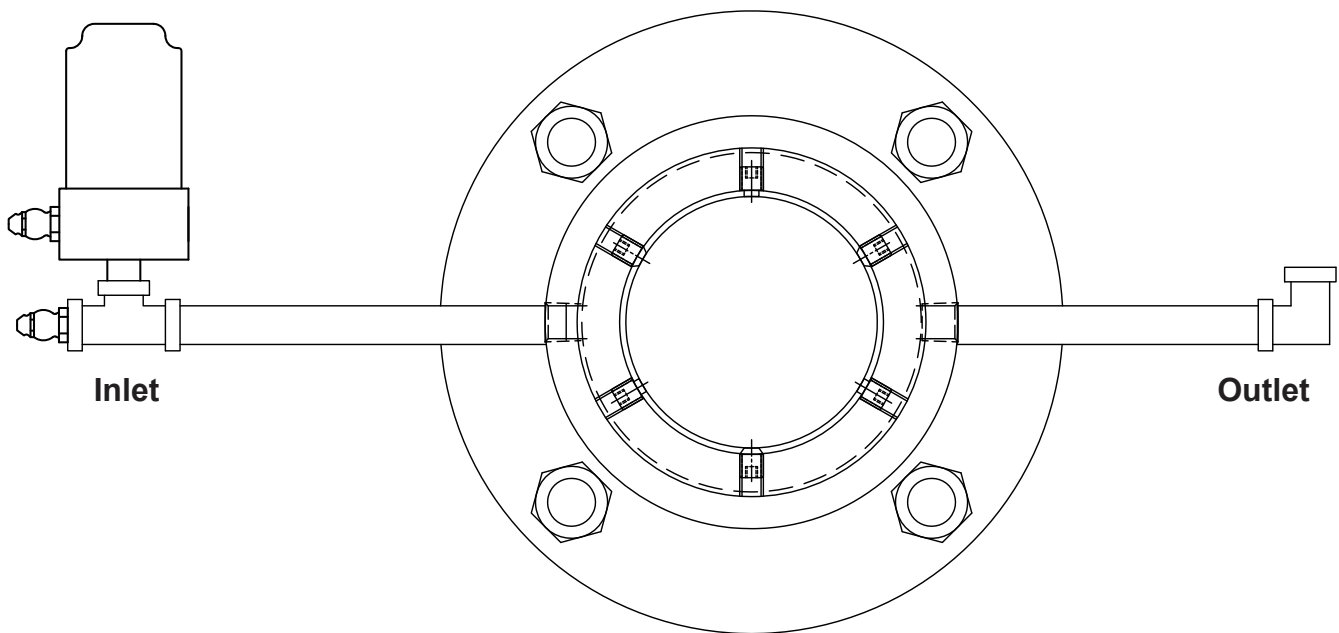
1. Do not remove the seal from the protective packaging until the equipment has been inspected and all necessary corrections have been made.
2. Disassemble, clean, and thoroughly inspect the equipment. Do not attempt to install the seal if actual conditions do not fall within the recommended specifications.
3. Check to insure the shaft/sleeve that the seal will be mounted on is free from wear in the area where the secondary seal will be sealing. Measure the OD of the shaft/sleeve and make sure the actual dimension falls within the tolerances recommended on the assembly drawing included with the seal. Insure the end of the shaft/sleeve does not contain a sharp edge or burr that might damage the o-ring during installation.
4. Remove all buildup from the stuffing box and measure the ID and depth to insure the actual dimensions fall within the recommended tolerances noted on the assembly drawing.
5. Inspect the stuffing box face to insure it is clean and free of imperfections that would prevent the housing o-ring from sealing.
6. Mount a dial indicator against the OD of the shaft/sleeve and rotate shaft to insure run out does not exceed .003" T.I.R. If it does, check for excessive sleeve clearances or bent shaft and correct.
7. With the indicator still in position against the OD of the shaft/sleeve, firmly push against the end of the shaft and read the indicator to check shaft deflection. If actual deflection exceeds .005", replace the radial bearing or correct the bearing clearances.
8. Reposition the dial indicator against the end of the shaft and check end play. If the actual movement exceeds .005", check thrust bearing conditions and correct.

### **Installation Procedure**

9. Remove seal from the protective packaging and slide gland over the shaft and against the bearing housing.
10. Thoroughly grease the shaft/sleeve o-ring with the lubricant provided and slide the unit over the end of the shaft/sleeve back to the bearing housing.
11. Reinstall the stuffing box and impeller.
12. Slide unit up against the stuffing box face insuring that the 1/8" NPT connections are conveniently positioned for connecting the purge lines. See the purge schematic included with the seal for preferred methods of mounting.
13. Slide the gland in place over the studs and finger-tighten gland nuts.
14. Install the equipment on-line and make all necessary adjustments.
15. Evenly tighten the gland nuts to compress the stuffing box face o-ring.
16. Evenly tighten all of the cup-point set screws with the Allen Wrench provided.
17. Snug the (3) dog point set screws with the smallest Allen Wrench included with the seal.
18. Using the 3/16" Allen Wrench, remove all of the socket head cap screws and the assembly clips.
19. Rotate the shaft by hand to insure it rotates freely. If binding occurs, do not attempt to start equipment.

## Setting up the Grease Purge

20. Install outlet purge line as shown on the included schematic.
21. Install the inlet purge line as also shown, except plug the connection in the tee where the automatic greaser is shown with the 1/8" pipe plug provided with the grease kit.
22. Fill the grease cavity through the zurc fitting located in the inlet purge line with the high-temp grease recommended by Sepco until it appears from the outlet purge line.
23. Insure the automatic greaser supplied in the grease kit is equipped with the proper spring and fill it with the approved grease in strict accordance to the manufacturer's specifications.
24. Remove and store the pipe plug and install the automatic greaser into position.
25. Refill the automatic greaser at frequencies required and to the level as recommended by the manufacturer.
26. If the system is cleaned periodically using a positive pressure process, completely purge the old grease from the seal cavity as per steps 21 & 22, and resume purge as per steps 23, 24, and 25.



If you need further assistance, please call  
our Engineering Department at:

**1-800-633-4770**