

MECHANICAL SEAL **INSTALLATION INSTRUCTIONS**

INSTALLING A MECHANICAL SEAL IN A **CENTRIFUGAL PUMP**

CAUTION: *Never put hands on lapped seal faces or put lapped seal parts face down on the workbench. Keep the mechanical seal in its original container until ready for installation.*

PREPARE PUMP

1. Clean and inspect pump parts.
2. Replace shaft or shaft sleeve and gland if worn in secondary sealing areas under o-rings, Teflon wedges or Teflon rings.
3. Check for good starting bevel and remove all burrs that would cut secondary seal o-rings or cause misalignment. Pay close attention to set screw marks.
4. Check shaft run out (to be within .001" TIR per inch of shaft dia.), shaft end play (not to exceed .005"), stuffing box face alignment (must be square to within .003" TIR and have a good sealing surface, 125 RMS min.) and condition of bearings. Replace if necessary.

INSTALLING SEAL

- 1) Bolt stuffing box back plate to the pump frame.
- 2) Install shaft sleeve.
- 3) Screw on impeller to hold shaft sleeve in proper position securely on shaft.
- 4) Scribe a line on the shaft sleeve at the face of the stuffing box.
- 5) Remove stuffing box plate.
- 6) Determine the operating length of a mechanical seal:
 - a) Place gland on clean area of workbench with the stuffing box face up.
 - b) Install stationary seal face with secondary sealing member in the gland (make sure gasket is in place if using a clamp type stationary).
 - c) Place gland gasket in proper position.
 - d) Place rotary unit, lapped face down, against the lapped stationary seal face.
 - e) With rotary unit at free height (not compressed by holding clips), measure the distance from the gland gasket to the top of the seal.
- 7) Determine the amount of compression on the seal:
 - a) Mechanical seals with multiple springs that are less than 2" in diameter require 1/8" compression.
 - b) Mechanical seals with multiple springs that are larger than 2" in diameter require 3/16" compression.
 - c) Mechanical seals with single springs usually have fixed or predetermined compression. Usually 1/2 of the free length of the single spring.

Mechanical Seal Installation Guide

Michael Hoelscher



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