

FLEX-A-SEAL, INC.

Seal Installation Instructions For Rubber Bellows Type Mechanical Seals

PREPARATION:

1. Disassemble Pump seal chamber to expose old seal. Note how old seal is disassembled to be sure replacement seal is installed in identical manner.
2. Carefully remove old seal rotary and stationary assembly, taking care not to scratch shaft or seat counterbore.
3. Prepare the pump. It must be clean, have good bearings, and alignment is within pump manufacturer's limits.
4. Clean shaft and seat counterbore surfaces using fine emery cloth or equivalent. Remove all rust, burrs, and wipe clean. Avoid making flat spots or reducing shaft diameter or increasing seat counterbore diameter.

INSTALLATION:

1. Important protect precision lapped seal faces. Avoid dirt or oil from getting on the faces and keep them from being scratched or damaged in any way.
2. Lubricate the shaft, rubber inner diameter of the rotary seal ring assembly, seat counterbore and rubber outer diameter of the stationary seat with a light oil. Note if rubber material is Ethylene Propylene only use a silicone lubricant.
3. Carefully press stationary seat firmly into counterbore and be sure it is bottomed square. Note the polished lapped side must face towards the rotary seal ring assembly.
4. Slide rotary seal ring assembly along shaft to a completely parallel contact with the stationary seat. Make sure spring is correctly engaged into seal head.
5. If the seal assembly includes a gland plate make sure the gland gasket has been installed to seal the gland plate to the face of the seal chamber.
6. Check the sliding fit of the seal on the shaft by releasing pressure on the gland plate and noting whether the spring moves the seal forward. If there is no movement the seal should be removed, relubricated and reinstalled. Note it is important that the installation should proceed rapidly since the rubber of the rotary seal ring will quickly bond itself to the shaft.
7. Reassemble the pump and tighten all screws and nuts evenly until they are secure.
8. Flood pump to insure there is no leakage, then start pump. Never run pump dry.