

Cartridge Mechanical Seal Installation

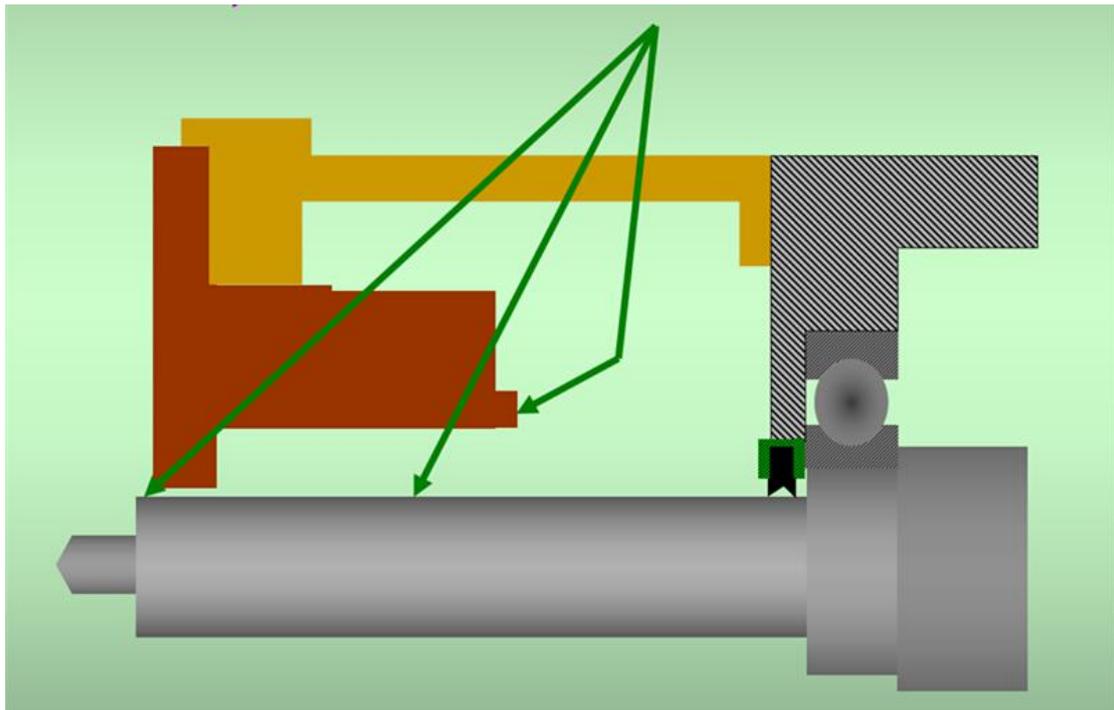
Before cartridge mechanical seal installation, what should we do ? What error we should prevent doing ? Something about seal lubrication. What is setting process we got to pay attention to ? What error we need to be careful during installation ? From the article, you will know something about mechanical seal nomenclature and mechanical seal arrangement.

Before mechanical seal installation, what should we do ?

Reading seal manual and maintenance hand book to make sure proper cartridge mechanical seal installation and function well.

Burrs on the pump shaft could cut shaft and sleeve o rings when installing the seal resulting in leakage.

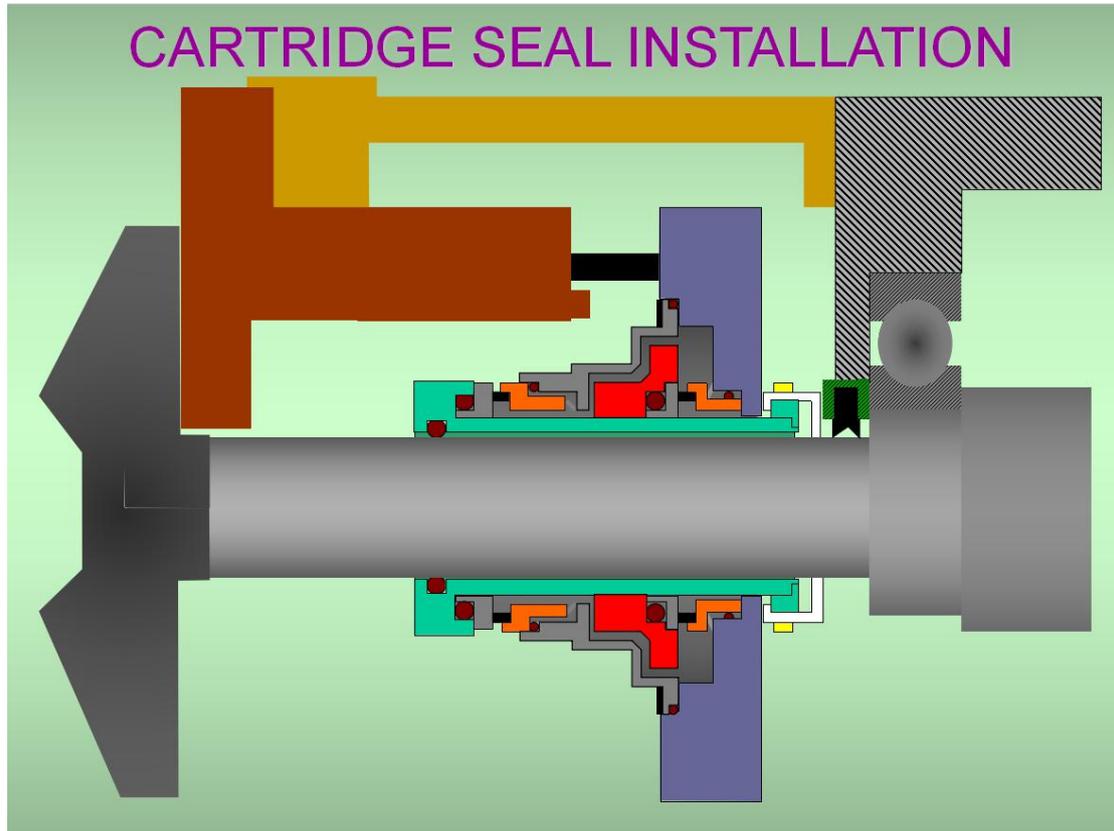
So, we make sure pump shaft and sleeve free of scratch where seal o ring sits. Checking that stuffing box face is clear of deep scratches and dents for seal gland o ring to seal property.



What we need to lubricate during installation ?

Lubricating o ring of seal to prevent from scratch and make it easier into a pump shaft.

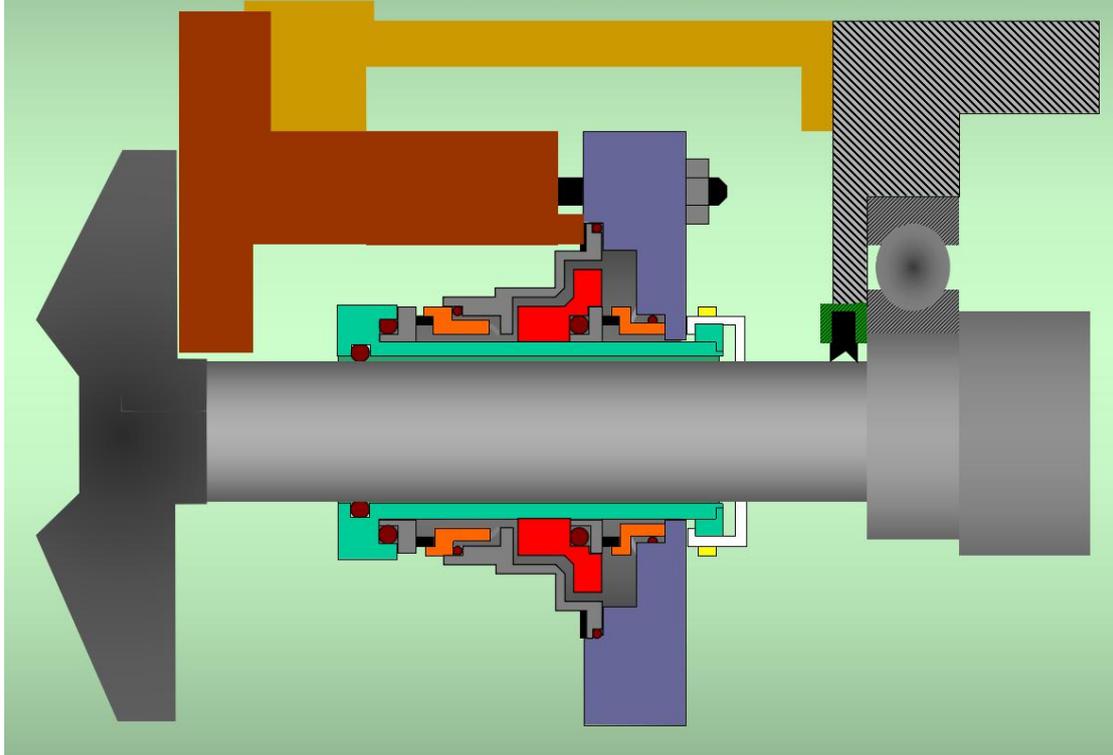
Lubricating o ring of a gland to prevent it falling off the o ring seat. Before, bolt it up.



What is setting process for a seal installation guide?

Slide sleeve over shaft carefully. With some pressure to the end of sleeve until o ring of sleeve onto the pump shaft. Then, assemble the rest of components. Be carefully, not to hit the mechanical seal. When tighten set screws, assure the shaft surface for set screw is exactly clean. If not, pls make it clean by a cloth. And it's necessary for a clean shaft. After assemble all pump parts, set impeller clearance. Do not set a impeller clearance after bolt up all seal assembly.

CARTRIDGE SEAL INSTALLATION



What error we need to be careful during installation ?

Not only cartridge mechanical seal installation should be careful, but also the other seal types, such as pusher type etc.

1, Polluted faces, will affect seal face flatness, cause over leakage. After operation, some oil will set like adhesives and get out from some primary carbon seal, result in too early seal failure.

2, Falling to set proper spring compression, excessive compression. Low compression- will not supply enough face contact, resulting in over leakage.

3, Sleeve o ring cut off , over leakage between sleeve and shaft. Then seal failure.

4, Mating ring improperly install in gland, cause excessive leakage due to improper face contact.