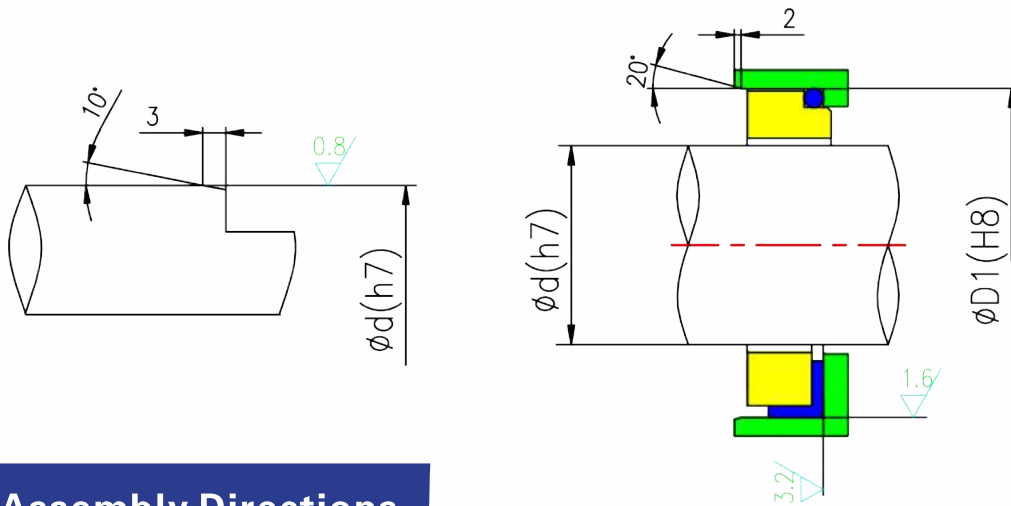


## 机械密封安装使用技术要求及说明

- 1、按工况条件与主机情况选择适宜型号的机械密封及材料匹配
- 2、装入机械密封的轴（或轴套）的端部及台阶处必须有倒角且尖角处要圆滑过渡，安装部位的尺寸偏差及表面粗糙度要求参照下图。
- 3、设备转轴（或轴套）的径向跳动应 $\leq 0.04\text{mm}$ ，转子的轴向窜动量 $\leq 0.1\text{mm}$ 。静止环的密封端盖（或壳体）的定位端面对轴的垂直度 $\leq 0.04\text{mm}$ 。
- 4、密封安装尺寸必须符合装配图尺寸要求。
- 5、设备的密封部位在安装时应保持清洁，密封端面应完好无损并涂一层机械油，防止任何杂质和灰尘带入密封部位。
- 6、安装密封的部位可以涂油润滑，必须注意乙丙橡胶不能与油脂接触，推荐用肥皂液或水润滑，装好后用手推动动组件，能使动组件在轴上灵活移动并具有一定弹性。
- 7、安装静环压盖时，拧紧螺丝必须受力均匀，保证静环端面与轴心线的垂直要求。
- 8、在安装过程中严禁碰击、敲打，以免使机械密封摩擦副破损而使密封失效。
- 9、弹簧传动的机械密封，应合理选择弹簧旋向，一般从电机端向叶轮端看，转轴为顺时针时，应选用右弹簧；反之则选用左弹簧。
- 10、安装后用手盘动转轴，转轴应无轻重感觉。
- 11、设备在运转前必须充满介质，以防止干摩擦而使密封失效。
- 12、当输送介质温度偏高、过低、或含有杂质颗粒、易燃、易爆、有毒液体或气体时，必须参照API682标准，采取相应的阻封、冲洗、冷却、过滤等措施，以防事故发生



### Assembly Directions

1. Make a careful selection of the corresponding seal type and the right seal face materials, which are able to satisfy the working conditions.
2. The shaft ends and steps where the mechanical seal is mounted requires chamfering. A smooth transition is needed if there is a sharp edge or corner. The deviations of the assembling dimensions and the roughness are shown in the above table for your reference.
3. The diameter run-out of the rotating shaft shall not be more than 0.04mm, and the axial run-out shall not be more than 0.1mm. The perpendicularity between the back side of the stationary face (or where the stationary face lies) and the shaft shall not be more than 0.04mm.
4. Check whether the real dimensions of the selected seal agree with the assembling dimensions.
5. Prevent any dust, any sand, etc. from entering where the seal is mounted. Keep it clean. Moreover, don't make any accidental damage to the sealing position.
6. Oil may be applied to lubricate where the seal is mounted. But oil is not used when the sealing material is EPDM. It is recommended that soap water be applied. After being mounted, push the rotary part with hands to check whether it can move in a flexible and elastic way.
7. Give a balanced force to the screws while tightening them up. After the stationary gland is fixed, please check whether the seal face is vertical to the axis.
8. Avoid hitting and knocking the seal parts in a strong way to stop the seal faces from cracking and breaking. Any damage to the seal faces will cause failure.
9. For the seals which are driven by springs, so it is important to choose the spring direction. If the shaft runs clockwise, seen from the motor to the impeller, choose a right hand spring. Otherwise choose a left hand spring.
10. After being fixed, please rotate the shaft with hands to check whether the shaft runs smoothly.
11. Fill the needed medium in the chamber before starting to prevent dry wear to avoid any leakage.
12. Please refer to API682 and take relevant measures to prevent any accident from occurring by blocking, washing, cooling, filtering and so on, when the mediums are too high or low in temperature, contain solid grains, are flammable, explosive or moxious.