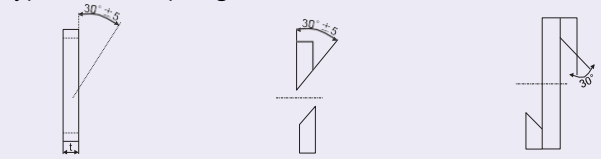
# O-Ring Characteristics Are Used Method

| Method | Use environment | Illustrate |
|---|---|---|
| Thickness selection | Compression rate maintained at 25% | Thicker sealing rings are more secure and less likely to be twisted. |
| Selection at high pressure | Below low pressure (70kg/cm2) | The elasticity of the O-ring itself will form a self-sealing, which has a sealing effect. |
| | Above high pressure (70kg/cm2) | In order to prevent the O-ring from being squeezed out of the gap outside the groove, and thus damaged or leaked, it is necessary to Back up ring.<br>Back up ring installation method：<br>Pressure is on both sides: B+●+B<br>Pressure is unilateral: Pressure+●+B<br>Types of Back up ring：<br>  <br>Boundless (good effect) Beveled (easy to install) Spiral (easy to install) |
| Selection of other uses | For sports | 1. For Piston Seal：Use 2 O-rings for better sealing.<br>2. For Rod Seal：Use 1 O-ring and 1 Rod Dust Seal. |
| | For cylindrical surface fixing | 1. The compression ratio and groove size are the same as those for sports.<br>2. In order to prevent the O-ring of P specification from slackening due to tolerance, and the phenomenon of inclusion occurs, the inner diameter is larger than (150mm or more), and the O-ring with a smaller size can be used. |
| | For flat fixing | 1. Under internal pressure, the outer periphery of the O-ring should be designed to be close to the outer wall of the groove.<br>2. Under external pressure, the inner circumference of the O-ring should be designed to be close to the inner wall of the groove. |
| | For vacuum flange | When used in vacuum machinery, please pay special attention to the correction of the contact surface and the selection of rubber materials that meet the degree of vacuum. |
| | For triangular groove | The size of the triangular groove requires 1.3 to 1.4 times the diameter of the O-ring wire. |
| Notes on installation | | 1. If the O ring has to pass through the screw or the acute angle, care should be taken not to damage the design Fixture for O ring.<br>2. When installing the O-ring in the groove, please do not twist it.<br>3. When installing the O-ring, apply sealing fluid to the mounting surface and the O-ring.<br>4. Reuse of the O ring should be avoided.<br>5. Do not use gasoline to clean the machine with the O-ring, which will cause the rubber material to expand. |
| How to store the O ring | | 1. Please place the O-ring in a shaded place, away from direct sunlight.<br>2. Please place the O-ring in a place with little ventilation, and keep it away from heat sources.<br>3. Do not hang with hooks, screws, ropes, etc. |