

General information for greasing:

Greased laminar rings provide a better seal arrangement than dry running rings, greased laminar rings are required when the application is subject to splash water, dirt and scale. In order to allow sufficient transfer of grease throughout arrangement and prevent over pressure during application, it is recommended that grease application bores and grease relief bores are provided. Where possible the ring carrier should be supplied by 4 off 3 to 5 mm diameter bores equally distributed around the circumference and also into the groove base, this will allow easy application and exchange of grease during re-lubrication.

Greasing options:

Listed below are three different and proven greasing options with greasing bores or grease relief bores, which can be arranged depending on the available space. Leakes from the outside are not possible because the bores are filled with grease.

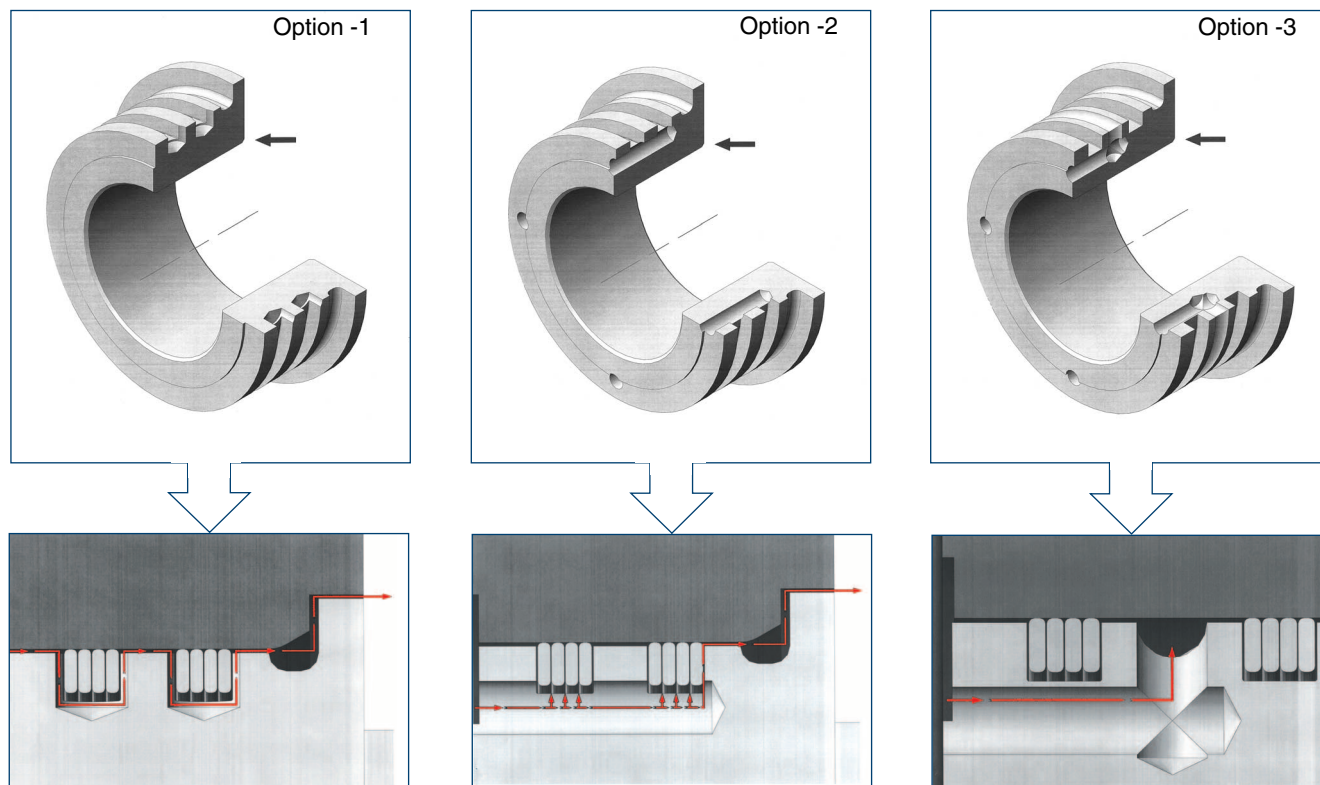
Lubrication recommendation:

We cannot make any recommendations for the selection of the lubricant or provide information about the greasing frequency. The type and quantity of an appropriate lubricant must be determined and specified by the customer depending on the operating conditions such as speed, operating temperatures, contamination level and ambient conditions. Bearing and lubricant manufacturers may be able to provide information.

Note:

The "FK5-HFL" ring types are the exception with respect to greasing. They must be installed dry and without any additional lubricants. The surrounding components, which come in contact with the laminar rings must also not be greased. The lubricants carbonize due to the high operating temperatures and the laminar rings will fail.

Application examples:



Option -1:

Grease relief bores, arranged vertically to the groove base, four for each groove circumferentially distributed at 90°. The bore diameter depends on the groove width. The grease pressed by the bearings can flow in next to the rings or can flow out upwards under the rings.

Option -2:

Grease relief bores, arranged horizontally to the groove base, four for each groove circumferentially distributed at 90°. The bore diameter should be between 3 and 5 mm. The grease pressed by the bearings can flow out upwards under the rings (groove base diameter) and next to the rings.

Option -3:

This greasing option is a combination of the above mentioned option 1 and 2. A so-called "grease chamber" is placed between the two sealing ring sets, this will act as a grease reservoir in the groove and therefore optimize the sealing effect.