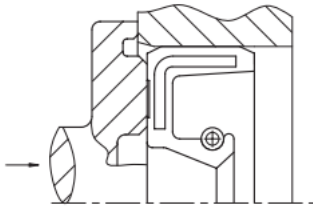
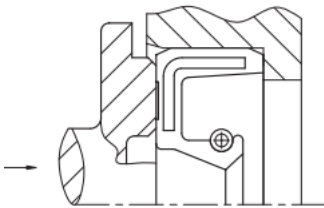


Installation



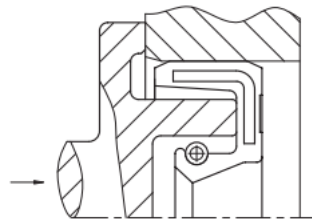
Correct installation is important. Approximately 30% of all failures and damage to the rotary shaft seals are caused by incorrect installation or unsuitable installation tools. The installation of rotary shaft seals is performed in accordance with DIN 3760.

Prior to installation, the installation space and the rotary shaft seal should be cleaned carefully. Otherwise adherent dirt particles may lead to leakage shortly after operation starts.

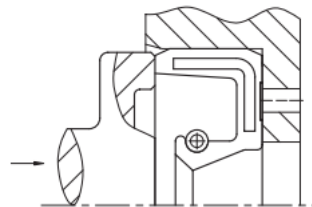


Preferably, a hydraulic or mechanical press-fitting device should be used to press the rotary shaft seal into the housing bore. This grips a large area on the outside of the rotary shaft seal, with the result that the force of pressure is exerted as closely as possible to the outer diameter. Please make sure that the press-fitting tool is held in the final position for a while. This reduces springback or skew of the rotary shaft seal to a minimum.

If a rotary shaft seal has to be passed over sharp edges, e.g. grooves, threads or shaft ends, appropriate installation sleeves are to be provided. The sleeve must not have any damage such as scratches or rough surfaces.



To guarantee a firm fit it must be ensured that the outer sheath rests completely against the inside of the housing bore. If the front chamfer of the rotary shaft seal protrudes slightly over the housing chamfer, the seating proportion is reduced, which can cause the rotary shaft seal to "wander" in the bore. If the space between the protective lip and the sealing lip is filled with grease, a defined application is to be provided. Application aids such as brushes can leave function-impairing residue behind on the seal. The space should be filled to a maximum of 2/3 with grease.



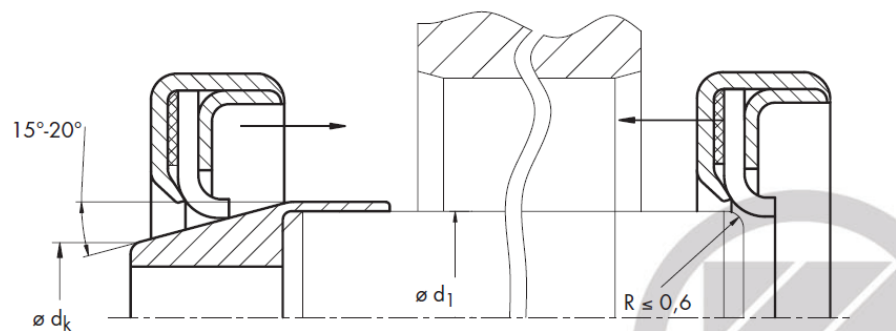
Various installation tools for rotary shaft seals

$\varnothing d_1$	$\varnothing d_k$
6 - 60	$\varnothing d_1 - 3.5$
65 - 135	$\varnothing d_1 - 4.5$
140 - 170	$\varnothing d_1 - 6$

WCP21

The diagram shows the secure installation of the WCP21. To install the WCP21 over a chamfered shaft an installation cone is to be used so that the sealing lip is guided and not folded over.

When installing the WCP21 with the outside at the front, bevelling or rounding must be performed. Otherwise, the general installation guidelines for rotary shaft seals apply.



Installation cone WCP21