

++ NEW ++ DLC RING SEALS

NO
STICK-SLIP
EFFECT



www.klinger-bartsch.de

PURE GRAPHITE RING SEALS

The pure graphite ring seal is a years-long, well proven solution for sealing. And because of its outstanding properties, it can be used in a wide spectrum. But the solution not only harbours advantages.



- Seal for difficult media in challenging environments
- Outstanding sealing properties
- Durability in a wide variety of media
- Suited for high pressure applications



- Stick-slip effect, adherence of graphite / carbon to steel / stainless steel
- Mechanical removal of adhered material leads to damage

15 - month long - term trail

- Coating of graphite seals and pure graphite rings as to DLC
- Long-term test under high pressure using a retrofit fixture

- **Test process / time period:**
July, 2019 - October 2020
- **Result:** also after a long pressure loading there was no Stick-Slip effect

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We wish to offer our customers a product that can be used as an all-rounder for every media. We used knowledge from the DLC process after a variety of trials and solution approaches in order to minimise the negative aspects.

Solutions from the field of DLC surface technology

- DLC (DIAMAND LIKE CARBON)
- Surface coating with carbon
- **Result:** reduction of friction, long surface coating lifetime

This process from surface technology was proven to be optimally applicable and has been tested under long-term real conditions and found to be feasible. By coating the seals with carbon, adherence to a variety of materials has been prevented. Now we are able to offer a proposed solution that allows a combination with different materials.