



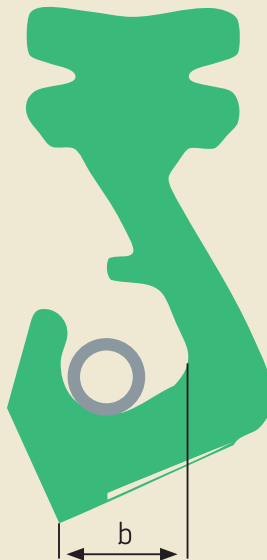
Blohm + Voss Industries



SIMPLEX
TURBULO

SIMPLEX-COMPACT 3 – SEALING RING

- Spring retaining nose
- Increased clearance for spring

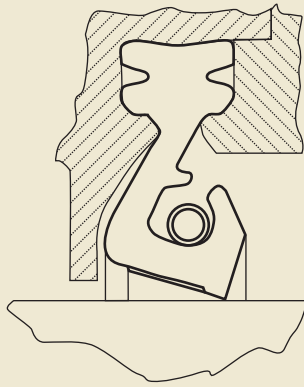


- Optimized fitting by an additional insert chamfer
- Lubrication pockets for optimized oil supply in the seal gap
- Reduced hydraulically effective area (b)

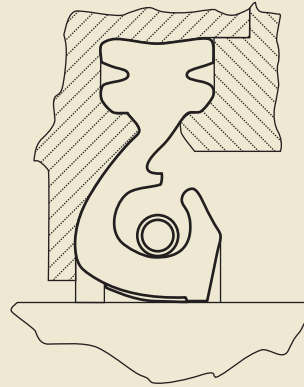
- Improved environmental protection
- EAL durable
- Optimized pressure interaction
- Best maintainability



Optimal cooling at high pressure by means of lubrication pockets



Moderate pressure load



Lubrication pockets engaged under higher pressure load

Advantages

Design

Optimized interaction with the pressure-regulating media (oil, air, water)

Reduced hydraulically effective area (b)
→ reduced pressure dependent line force
for cooler sealing ring

Hydrodynamic lubrication in the contact
area of the pressure-loaded sealing ring
→ optimized lubrication and cooling

Durability

**Decelerated aging by minimizing
temperature-dependent effects
→ extended life of the sealing ring**

Lubrication pockets for oil supply in the seal
gap → cooling

Improved heat transfer in the seal → lower
thermal load

Environment

**Best possible environmental protection
through maximum tightness**

More clearance for the spring → improved
adaptability to deflection for the entire
sealing ring

Consistent sealing function over lifetime
→ increased reliability

**VGP 2013 (Vessel General Permit)
regulations can be fulfilled**

Bio oil resistant sealing ring material
(e.g. for the use of EAL oils)

Services

Optimized maintainability

Optimized range of spring clearance →
high installation safety

Patent pending nose → holds the spring
securely in the cavity

Optimized seal fixation with insert
chamfer → precise and easy assembly

Certified and well established in-situ
SIMPLEX repair standards

Worldwide service network and availability
of spares

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