



Product Information

Power Steering Seals



WSI Power Steering Seals Including rotary seals on the steering shaft and reciprocating Seals on the rack shaft, is designed with excellent quality for sealing of the hydraulic power steering fluid. The power steering seals are critical components of the power steering systems as they play an important role of preventing pressure loss to ensure the power steering function. WSI offers seals for both the re-circulation ball screw type and rack & pinion power steering systems.

Product Description

Steering Shaft Seal

- **Rotary seal installed on the steering shaft to prevent leakage and maintain lubrication.**
- **Bonded rubber-metal design to ensure strength while offering excellent sealing.**
- **Secondary lip to prevent reversion of the main lip.**



Rack Shaft Seal

- **High-pressure resistant reciprocating seals installed on the rack shaft of the power cylinder.**
- **Compounded design of rubber sealing element, metal casing and back-up ring to ensure sealing at high pressures.**
- **Integrated back-up ring providing further support for the sealing lip to enable better pressure resistance and prevent lip reversion.**
- **Hydrodynamic helix design with excellent pumping rate to further aid in sealing and reduce friction and heating thus to prolong the seal service life.**



Technical Information

Professional Design and Testing for the Specific End Application

WSI utilizes advanced computer programs and dynamic simulation testing to ensure the WSI Power Steering Seal performs what it should offer plus better service life.

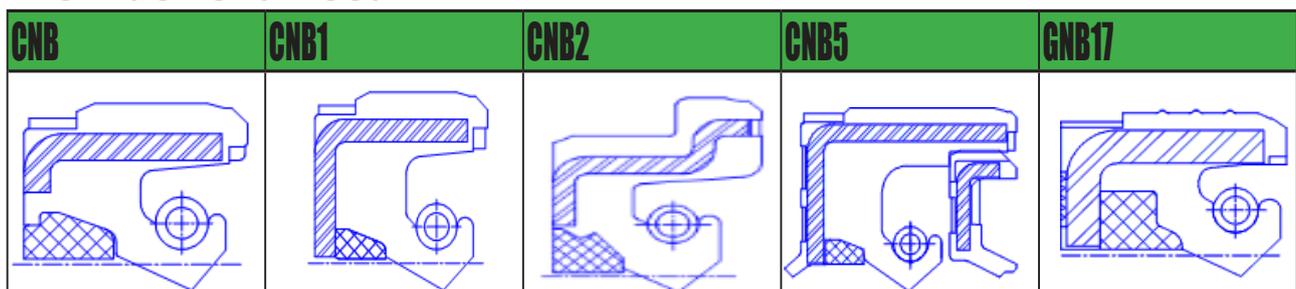


Material Selection

While NBR is still the most widely used material for power steering seals, in many cases HNBR is replacing NBR especially for applications with higher pressure, more extreme temperature, higher friction and higher heat generation. Features of HNBR for power steering seals include:

- **Better capability to maintain stability under various fluids and additives**
- **Better resistance to oil and ozone**
- **Better resistance to wear**
- **Better low and high temperature capabilities**
- **Better mechanical properties e.g. tensile strength**
- **Can be vulcanize by either sulfur or peroxide**

WSI Rack Shaft Seal



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