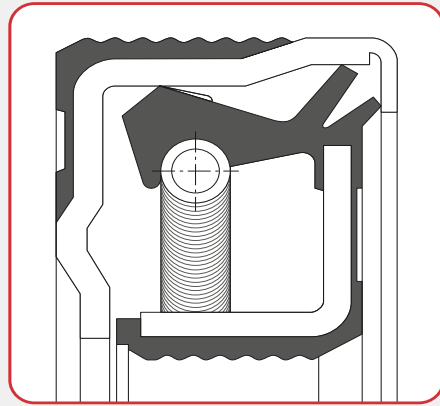




BTSEALS[®]

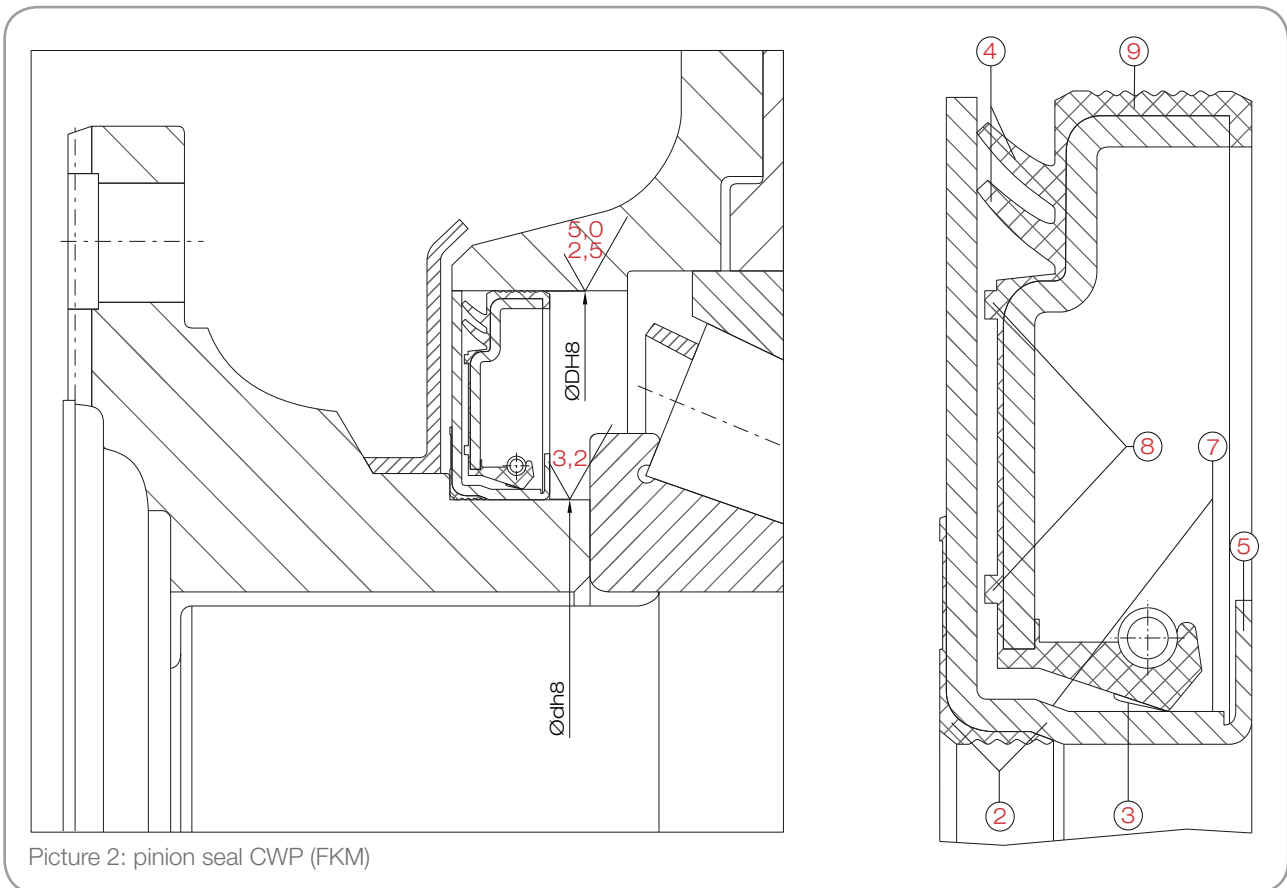
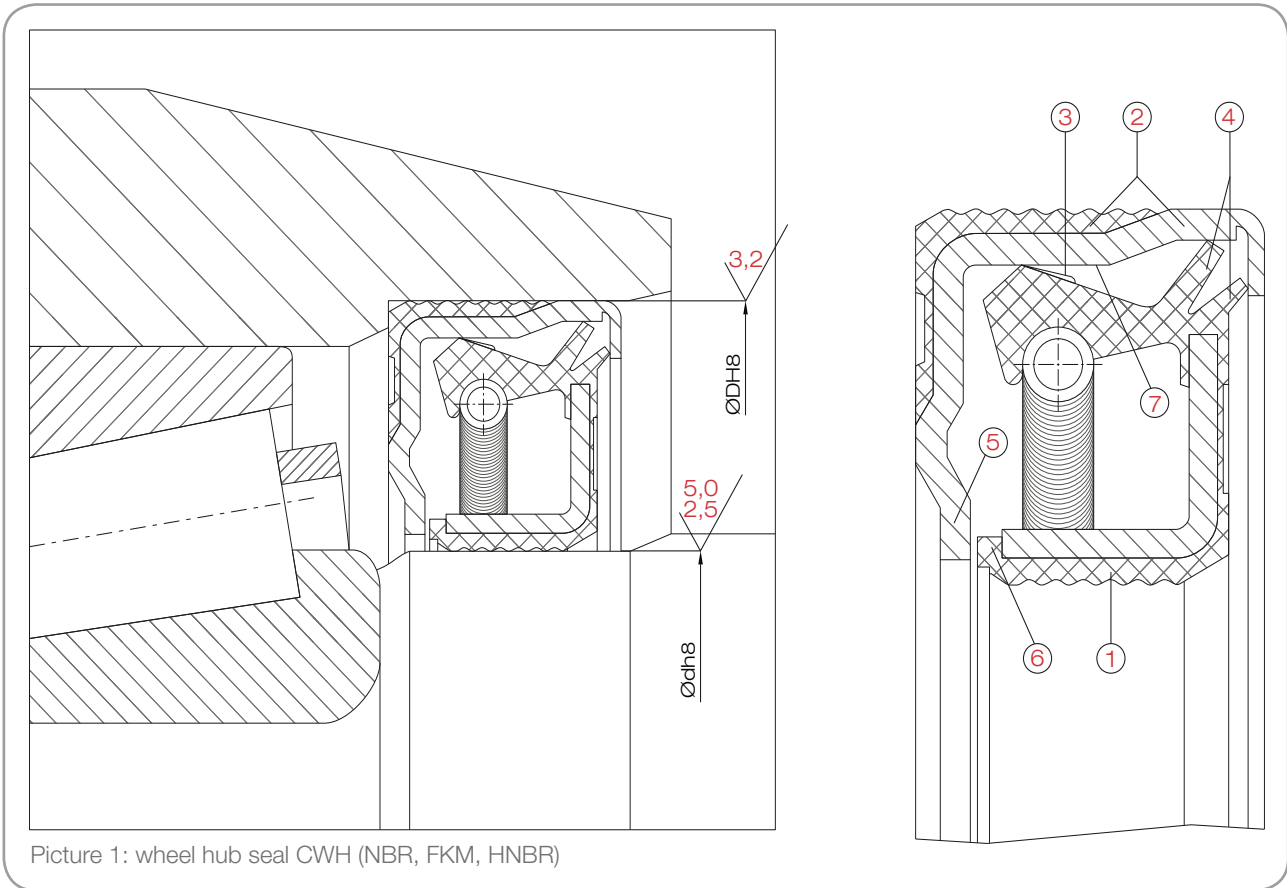
We Seal Your Success



CASSETTE SEALS

For Heavy Vehicles

Cassette Seals



General information

A cassette seal is a fully encapsulated oil seal, developed especially for the heavy vehicle industry. Cassette seals are mainly used as HUB seals and Pinion seals in axles. This „All-in-One“ seal construction includes the function of an oil seal, a dust seal and a wear sleeve. The inner body with its robust sealing lip is fixed securely on to the shaft while the outer part of the cassette seal is fixed in the wheel hub and rotates around the sealing lip. Independently of wheel hub rotation speed, a steady contact force of the sealing lip applies. The two flexible dustlips protect reliably against ingress of dirt and water. Due to the fact that the metal housing is manufactured from one piece only, leakage cannot occur (as it can happen with jointed metal housings).

Advantages (see picture 1 and 2)

- ① Elastomer sealing; no special hardened/grinded wear sleeve on the shaft required
- ② Combined, waved elastomer-/metal-pressfit for leakage-free sealing and optimal heat-transfer to the surrounding metal parts
- ③ Incorporated, bidirectional relief pattern; supports the lubrication of the sealing edge in both directions
- ④ Two dustlips preventing the ingress of water and dust
- ⑤ Oil deflector - protection against oil spray, caused by the bearing
- ⑥ Elastomer distance lugs for securely positioning the sealing element, ensuring space for oil circulation and lubrication of the sealing lip
- ⑦ Pre-lubricated counterface of the sealing lip
- ⑧ Vulcanized elastomer lugs to secure the position during mounting
- ⑨ Elastomer pressfit

Information regarding assembly and operation

During the first run, smoke may occur, until the pressfit of the elastomer lugs are worn off. The usage of appropriate assembly tools is necessary in order to AVOID DEFORMATION of the seal! On costumers demand, accordant drawings can be provided.

It is prohibited to use any additional sealants or adhesives for assembly! Cassette seals are generally designed for oil-lubricated axles. The counter face is generously pre-lubricated.

The costumer is obligated to point out (at time of order) if the axles are grease-lubricated. In this case, a higher amount of grease will be applied into the cassette.

References





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