



## Gamma/RB/9RB

The **RB** and **9RB** are axial seals consisting of 2 sections, one coated metal ring and one mould vulcanised elastomer sealing element.

The metal ring protects the elastomer seal against damage, serves as a stand and support for the elastomer seal and simultaneously acts as a flinger. The elastomer seal is not firmly bonded to but stretched over the metal ring and is additionally held by the axial flange.

With the 9RB the metal ring is extended in an axial direction on the outer sheath. Additional labyrinth sealing is created in combination with the circulating groove in the sliding surface.

### Description

Product group: Axial seal

Profil-Nr.

RB = standard 9RB = extended metal ring

Seal material: NBR 70 Colour: black ,Seal material: FKM 70 Colour: brown

Metallring: steel 1.0204 (SAE 1008) covered on demand

Metallring: stainless spring steel 1.4301 (SAE 304)

### Area of application

RB/9RB axial seals are mainly used in combination with rotary shaft seals. They are applied as modular sealing elements affixed in series to seal against dirt, dust, grease and water spray from the outside.

### Media

Good chemical resistance to many mineral oils and greases

### Operational application limits

Peripheral speeds: NBR  $\leq$  12 m/s Temperature: NBR - 40°C to + 100°C Pressure: designed for pressureless operation.

### Sliding surface

The RB/9RB axial seal runs against a sliding surface placed at right angles to the shaft, e.g. the flange cover or end wall of a bearing housing. The metal air side of a rotary shaft seal (type B, C) is often also used as a sliding surface. The demands on the sliding surface are lower than with rotary shaft seals. The sliding surface should have a machine-finished surface with a surface quality of max. Ra = 2  $\mu$ m (adequate for many applications). Prefabricated injection mould or moulded light-metal alloy parts as

### Shaft

The shaft should be produced with a tolerance acc. to ISO h9 (or the standard tolerance for roller bearings acc. to ISO g6 or n6) to guarantee the required press fit and good, secure positioning on the shaft. No further axial fixing is necessary.