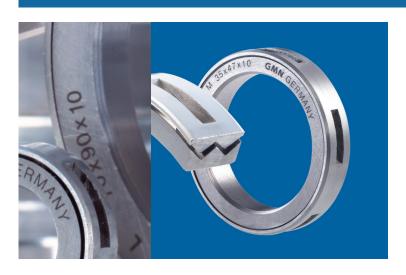
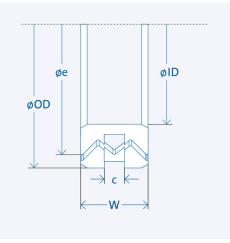


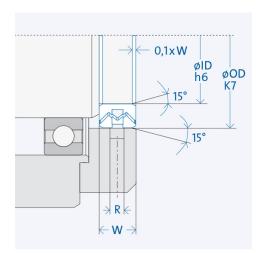
# Labyrinth Metal Seal Type M



### Axial play:







#### M 200 X 230 X 20

#### Item number 301470

#### Technical data

Outer ring material\*: Aluminum (GD AlSi 12)
Inner ring material: Unalloyed construction steel

Inner diameter ID: 200 mm
Outer diameter OD: 230 mm
Installed width W: 20 mm

Sealing gap: Horizontal Axial play  $S_{ax}^{**}$ : 0.8 mm

Radial play  $S_{rad}^{**}$ :  $S_{rad} = S_{ax} / tan (42,5^{\circ})$ 

Gap diameter e: 224.5 mm

Gap height: Constant 0,2–0,5 mm (depending

upon size)

Keyway width c: 5 mm

Speed limit: 4500 rpm
Weight: 1.1773 kg
Operating temperature t: -40° - 200°C

\*Aluminum outer ring

The aluminum outer ring can be slightly non-round as supplied. By pressing in the seal, the relatively easily deformable ring fits the roundness of the hub.

The outer ring can be up to 0.1 mm wider than the inner ring due to manufacturing. GMN metal labyrinth seals are pressed through a calibration ring ('zero dimension'). The outer ring then springs back due to its elasticity.

Heavy and direct splashing liquids could be drained through a certain number of grooves in the outer ring into a circular groove inside the housing; Width of the circular groove in the customer part: R = c + 1 mm (c = Keyway width)

#### Installation

"I" Length (chamfering of shaft and housing) depending on the width W:  $I = 0.1 \times B$ 

## Component tolerances

Surrounding structure (mating parts)

Housing: K7 / Shaft: h6

Surface quality: Rz ≤ 16 µm; Ra ≤ 3,2 µm

<sup>\*\*</sup>Entire movability from one end position to the other.