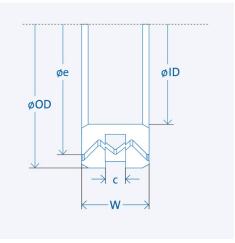


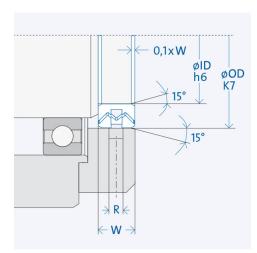
Labyrinth Metal Seal Type M



Axial play:







M 90 X 110 X 10

Item number 301428

Technical data

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

Inner diameter ID: 90 mm
Outer diameter OD: 110 mm
Installed width W: 10 mm

Sealing gap: Horizontal Axial play S_{ax}^{**} : 0.42 mm

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

Gap diameter e: 105 mm

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

upon size)

Keyway width c: 3 mm

Speed limit: 12000 rpm
Weight: 0.1755 kg
Operating temperature t: -40° - 200°C

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

^{*}Aluminum outer ring

^{**}Entire movability from one end position to the other.